

AMENDMENT IN THE NATURE OF A SUBSTITUTE
TO H.R. 3551
OFFERED BY MR. EHLERS

Strike all after the enacting clause and insert the following:

1 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

2 (a) SHORT TITLE.—This Act may be cited as the
3 “Surface Transportation Research and Development Act
4 of 2004”.

5 (b) TABLE OF CONTENTS.—The table of contents for
6 this Act is as follows:

Sec. 1. Short title; table of contents.
Sec. 2. Findings.

**TITLE I—SURFACE TRANSPORTATION RESEARCH AND
DEVELOPMENT**

Sec. 101. Authorization of appropriations.
Sec. 102. Goals, principles, and processes.
Sec. 103. Transportation research and development strategic planning.
Sec. 104. Surface transportation research and development.
Sec. 105. Technology deployment.
Sec. 106. Training and education.
Sec. 107. Bureau of Transportation Statistics.
Sec. 108. State planning and research.
Sec. 109. Future Strategic Highway Research Program.
Sec. 110. University transportation research.
Sec. 111. Intelligent Transportation Systems.

TITLE II—MISCELLANEOUS

Sec. 201. Authorization of appropriations.
Sec. 202. Innovative Practices and Technologies Demonstration and Deployment Program.
Sec. 203. National Transit Institute.
Sec. 204. Human resource programs.
Sec. 205. Highway safety research and development.



Sec. 206. Motor carrier research and development program.

Sec. 207. Transportation, energy, and environment.

Sec. 208. National cooperative freight transportation research and development program.

Sec. 209. Next Generation National Transportation Policy Study Commission.

Sec. 210. Real-time system management information program.

Sec. 211. Planning capacity building initiative.

1 **SEC. 2. FINDINGS.**

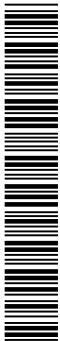
2 The Congress finds the following:

3 (1) Research and development are critical to de-
4 veloping and maintaining a transportation system
5 that meets the goals of safety, mobility, economic vi-
6 tality, efficiency, equity, and environmental protec-
7 tion.

8 (2) Federally sponsored surface transportation
9 research and development has produced many suc-
10 cesses. The development of rumble strips has in-
11 creased safety; research on materials has increased
12 the lifespan of pavements, saving money and reduc-
13 ing the disruption caused by construction; and Geo-
14 graphic Information Systems have improved the
15 management and efficiency of transit fleets.

16 (3) Despite these important successes, the Fed-
17 eral surface transportation research and develop-
18 ment investment represents less than one percent of
19 overall government spending on surface transpor-
20 tation.

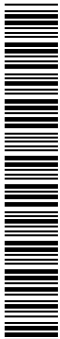
21 (4) While Congress increased funding for over-
22 all transportation programs by about 40 percent in



1 the Transportation Equity Act for the 21st Century,
2 funding for transportation research and development
3 remained relatively flat.

4 (5) The Federal investment in research and de-
5 velopment should be balanced between short-term
6 applied and long-term fundamental research and de-
7 velopment. The investment should also cover a wide
8 range of research areas, including research on mate-
9 rials and construction, research on operations, re-
10 search on transportation trends and human factors,
11 and research addressing the institutional barriers to
12 deployment of new technologies.

13 (6) Therefore, Congress finds that it is in the
14 United States interest to increase the Federal in-
15 vestment in transportation research and develop-
16 ment, and to conduct research in critical research
17 gaps, in order to ensure that the transportation sys-
18 tem meets the goals of safety, mobility, economic vi-
19 tality, efficiency, equity, and environmental protec-
20 tion.



1 **TITLE I—SURFACE TRANSPOR-**
2 **TATION RESEARCH AND DE-**
3 **VELOPMENT**

4 **SEC. 101. AUTHORIZATION OF APPROPRIATIONS.**

5 (a) IN GENERAL.—There are authorized to be appro-
6 priated for each of fiscal years 2004 through 2009, to
7 carry out this title and the amendments made by this title
8 (other than sections 108 and 109) and other programs
9 described in subsection (b), the greater of—

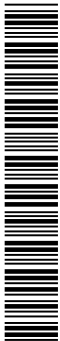
10 (1) 1.08 percent of the amounts made available
11 in each fiscal year from the Highway Trust Fund;
12 or

13 (2) \$500,000,000.

14 (b) PROGRAMS.—Of the amount authorized to be ap-
15 propriated under subsection (a)—

16 (1) 51 percent shall be for carrying out sections
17 502, 503, 506, 507, 508, and 510 of title 23, United
18 States Code, section 5113(b) of the Transportation
19 Equity Act for the 21st Century, and section 104(d)
20 of this Act, for each of fiscal years 2004 through
21 2009, of which—

22 (A) not less than \$20,000,000 shall be for
23 the Surface Transportation Environment and
24 Planning Cooperative Research Program under



1 section 507 of title 23, United States Code, for
2 each of those fiscal years;

3 (B) not less than \$10,000,000 shall be for
4 advanced exploratory research under section
5 502(d) of title 23, United States Code, for each
6 of those fiscal years; and

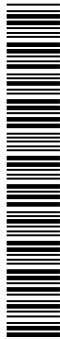
7 (C) not less than \$5,000,000 shall be for
8 the National Multimodal Trends Policy Re-
9 search Program under section 104(d) of this
10 Act for each of those fiscal years;

11 (2) 6.5 percent shall be for carrying out section
12 504 of title 23, United States Code, for each of fis-
13 cal years 2004 through 2009;

14 (3) 6.5 percent shall be for carrying out section
15 111 of title 49, United States Code, for each of fis-
16 cal years 2004 through 2009, of which not less than
17 \$5,000,000 shall be for research and development
18 grants under subsection (i)(2) of such section for
19 each of fiscal years 2004 through 2009;

20 (4) 11.5 percent shall be for carrying out sec-
21 tion 5505 of title 49, United States Code, for each
22 of fiscal years 2004 through 2009; and

23 (5) 24.5 percent shall be for carrying out the
24 Intelligent Transportation Systems Act of 2004 for
25 each of fiscal years 2004 through 2009.



1 **SEC. 102. GOALS, PRINCIPLES, AND PROCESSES.**

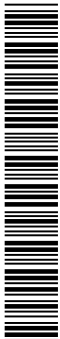
2 (a) GOALS.—The Federal Government shall support
3 surface transportation research and development to help
4 achieve the goals established for the surface transpor-
5 tation system as set forth in the Transportation Equity
6 Act for the 21st Century, including supporting economic
7 vitality, improving safety and security, increasing mobility,
8 protecting and enhancing the environment, improving in-
9 tegration between modes of transportation, promoting effi-
10 ciency, and emphasizing the preservation of the existing
11 transportation system.

12 (b) BASIC PRINCIPLES GOVERNING RESEARCH AND
13 DEVELOPMENT.—

14 (1) COVERAGE.—Surface transportation re-
15 search and development shall include all activities
16 leading to technology development and transfer, as
17 well as the introduction of new and innovative ideas,
18 practices, and approaches, through such mechanisms
19 as field applications, education and training, and
20 technical support.

21 (2) FEDERAL RESPONSIBILITY.—The Federal
22 Government shall fund and conduct surface trans-
23 portation research and development and technology
24 transfer activities that—

25 (A) are of national significance;



1 (B) support research and development in
2 which there is a clear public benefit, and pri-
3 vate sector investment is less than optimal due
4 to market failure;

5 (C) support research and development that
6 the Secretary determines is critical that is not
7 otherwise being conducted by the public or pri-
8 vate sector; or

9 (D) support a Federal stewardship role in
10 ensuring that State and local governments use
11 national resources efficiently.

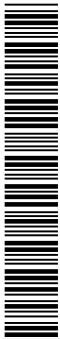
12 (3) ROLE.—Consistent with these Federal re-
13 sponsibilities, the Secretary of Transportation
14 shall—

15 (A) conduct research and development;

16 (B) support and facilitate research and de-
17 velopment and technology transfer activities by
18 State highway agencies, metropolitan planning
19 organizations, and local governments;

20 (C) share results of completed research
21 and development; and

22 (D) support and facilitate technology and
23 innovation deployment.



1 (4) PROGRAM CONTENT.—The surface trans-
2 portation research and development program shall
3 include—

4 (A) fundamental, long-term research;

5 (B) research and development aimed at
6 significant research gaps, and emerging issues
7 with national implications; and

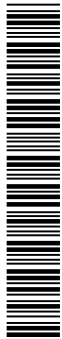
8 (C) research related to policy and plan-
9 ning.

10 (c) PROCESSES.—

11 (1) STAKEHOLDER INPUT.—Federal surface
12 transportation research and development activities
13 shall address the needs of stakeholders. Stakeholders
14 include States, metropolitan planning organizations,
15 local governments, the private sector, researchers,
16 research sponsors, and other affected parties, includ-
17 ing public interest groups.

18 (2) COMPETITION AND PEER REVIEW.—Except
19 as otherwise provided in this Act, the Secretary shall
20 award all grants, contracts, and cooperative agree-
21 ments for research and development under this Act
22 based on open competition and peer review of pro-
23 posals.

24 (3) PERFORMANCE REVIEW AND EVALUA-
25 TION.—To the maximum extent practicable, all sur-



1 face transportation research and development
2 projects shall include a component of performance
3 measurement and evaluation. Performance measures
4 shall be established during the proposal stage of a
5 research and development project and shall, to the
6 maximum extent possible, be outcome-based. All
7 evaluations shall be made readily available to the
8 public.

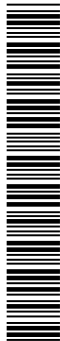
9 **SEC. 103. TRANSPORTATION RESEARCH AND DEVELOP-**
10 **MENT STRATEGIC PLANNING.**

11 (a) AMENDMENT.—Section 508 of title 23, United
12 States Code, is amended to read as follows:

13 **“§ 508. Transportation research and development**
14 **strategic planning**

15 “(a) IN GENERAL.—

16 “(1) DEVELOPMENT.—Not later than 1 year
17 after the date of enactment of the Surface Transpor-
18 tation Research and Development Act of 2004, the
19 Secretary shall develop a 5-year transportation re-
20 search and development strategic plan to guide Fed-
21 eral transportation research and development activi-
22 ties. This plan shall be consistent with section 306
23 of title 5, sections 1115 and 1116 of title 31, and
24 any other research and development plan within the
25 Department of Transportation.



1 “(2) CONTENTS.—The strategic plan developed
2 under paragraph (1) shall—

3 “(A) describe the primary purposes of the
4 transportation research and development pro-
5 gram, which shall include, at a minimum—

6 “(i) reducing congestion and improv-
7 ing mobility;

8 “(ii) promoting safety;

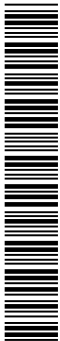
9 “(iii) promoting security;

10 “(iv) protecting and enhancing the en-
11 vironment;

12 “(v) preserving the existing transpor-
13 tation system; and

14 “(vi) improving the durability and ex-
15 tending the life of transportation infra-
16 structure;

17 “(B) for each purpose, list the primary re-
18 search and development topics that the Depart-
19 ment intends to pursue to accomplish that pur-
20 pose, which may include the fundamental re-
21 search in the physical and natural sciences, ap-
22 plied research, technology development, and so-
23 cial science research intended for each topic;
24 and



1 “(C) for each research and development
2 topic, describe—

3 “(i) the anticipated annual funding
4 levels for the period covered by the stra-
5 tegic plan; and

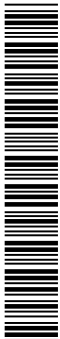
6 “(ii) the additional information the
7 Department expects to gain at the end of
8 the period covered by the strategic plan as
9 a result of the research and development in
10 that topic area.

11 “(3) CONSIDERATIONS.—In developing the stra-
12 tegic plan, the Secretary shall ensure that the
13 plan—

14 “(A) reflects input from a wide range of
15 stakeholders;

16 “(B) includes and integrates the research
17 and development programs of all the Depart-
18 ment’s operating administrations, including
19 aviation, transit, rail, and maritime; and

20 “(C) takes into account how research and
21 development by other Federal, State, private
22 sector, and not-for-profit institutions contrib-
23 utes to the achievement of the purposes identi-
24 fied under paragraph (2)(A), and avoids unnec-
25 essary duplication with these efforts.



1 “(4) PERFORMANCE PLANS AND REPORTS.—In
2 reports submitted under sections 1115 and 1116 of
3 title 31, the Secretary shall include—

4 “(A) a summary of the Federal transpor-
5 tation research and development activities for
6 the previous fiscal year in each topic area;

7 “(B) the amount of funding spent in each
8 topic area;

9 “(C) a description of the extent to which
10 the research and development is meeting the ex-
11 pectations set forth in paragraph (2)(C)(ii); and

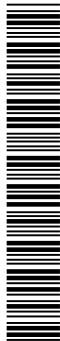
12 “(D) any amendments to the strategic
13 plan.

14 “(b) The Secretary shall submit to Congress an an-
15 nual report, along with the President’s annual budget re-
16 quest, describing the amount spent in the last completed
17 fiscal year on transportation research and development
18 and the amount proposed in the current budget for trans-
19 portation research and development.

20 “(c) NATIONAL RESEARCH COUNCIL REVIEW.—The
21 Secretary shall enter into an agreement for the review by
22 the National Research Council of the details of each—

23 “(1) strategic plan under section 508;

24 “(2) performance plan required under section
25 1115 of title 31; and



1 “(3) program performance report required
2 under section 1116 of title 31,
3 with respect to transportation research and develop-
4 ment.”.

5 (b) CONFORMING AMENDMENT.—The analysis for
6 chapter 5 of title 23, United States Code, is amended by
7 striking the item related to section 508 and inserting the
8 following:

“508. Transportation research and development strategic planning.”.

9 **SEC. 104. SURFACE TRANSPORTATION RESEARCH AND DE-**
10 **VELOPMENT.**

11 (a) SURFACE TRANSPORTATION RESEARCH AND DE-
12 VELOPMENT.—Section 502 of title 23, United States
13 Code, is amended—

14 (1) in subsection (a)—

15 (A) in paragraph (1), by striking “may”
16 and inserting “shall”; and

17 (B) by striking subparagraphs (B) and (C)
18 of paragraph (1) and inserting the following:

19 “(B) all phases of transportation planning
20 and development (including construction, trans-
21 portation system management and operation,
22 modernization, development, design, mainte-
23 nance, safety, data collection, performance anal-
24 ysis, multimodal assessment, financing, demand
25 forecasting, and traffic conditions);



1 “(C) institutional arrangements and sup-
2 port; and

3 “(D) the effect of State laws on the activi-
4 ties described in subparagraphs (A), (B), and
5 (C).”;

6 (2) by amending subsection (c) to read as fol-
7 lows:

8 “(c) CONTENTS OF RESEARCH AND DEVELOPMENT
9 PROGRAM.—The Secretary shall include in surface trans-
10 portation research, development, and technology transfer
11 programs carried out under this title coordinated activities
12 in the following areas:

13 “(1) Research and development on materials
14 and structures to improve the durability of surface
15 transportation infrastructure and extend the life of
16 pavements and bridges, including, as appropriate—

17 “(A) development of nondestructive evalua-
18 tion equipment for use with existing infrastruc-
19 ture facilities and with next-generation infra-
20 structure facilities that use advanced materials;

21 “(B) standardized estimates, developed in
22 conjunction with the National Institute of
23 Standards and Technology and other appro-
24 priate organizations, of useful life under various



1 conditions for advanced materials of use in sur-
2 face transportation;

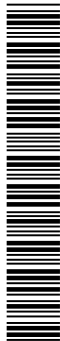
3 “(C) research on the effects of climate con-
4 ditions (such as freezing, thawing, and precipi-
5 tation) on highway construction materials, and
6 development of materials that can withstand cli-
7 matic conditions; and

8 “(D) economic highway geometrics, struc-
9 tures, and desirable weight and size standards
10 for vehicles using the public highways and the
11 feasibility of uniformity in State regulations
12 with respect to such standards.

13 “(2) Research and development on the oper-
14 ation and management of the surface transportation
15 system to improve efficiency, productivity, and safe-
16 ty, including, as appropriate—

17 “(A) technologies and practices that reduce
18 costs and minimize disruptions associated with
19 the construction, rehabilitation, and mainte-
20 nance of surface transportation systems, includ-
21 ing responses to natural disasters;

22 “(B) research and system analysis to facili-
23 tate and integrate bicycle and pedestrian travel
24 in the transportation system, including within



1 National Parks and in areas adjacent to Na-
2 tional Park land;

3 “(C) development of dynamic simulation
4 models of surface transportation systems for—

5 “(i) predicting capacity, safety, and
6 infrastructure durability problems;

7 “(ii) evaluating the extent to which
8 projects are likely to achieve their stated
9 objectives; and

10 “(iii) testing the strengths and weak-
11 nesses of proposed revisions to surface
12 transportation operations and management
13 programs;

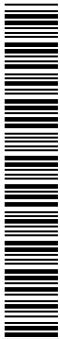
14 “(D) improvement of life cycle cost anal-
15 ysis, including—

16 “(i) establishing the appropriate anal-
17 ysis period and discount rates;

18 “(ii) learning how to value and prop-
19 erly consider use costs;

20 “(iii) determining tradeoffs between
21 reconstruction and rehabilitation; and

22 “(iv) establishing methodologies for
23 balancing higher initial costs of new tech-
24 nologies and improved or advanced mate-
25 rials against lower maintenance costs;



1 “(E) research on the effects of climatic
2 conditions (such as freezing, thawing, and pre-
3 cipitation) on the costs of highway construction
4 materials and maintenance;

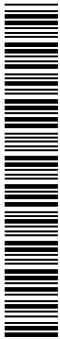
5 “(F) research, development, and tech-
6 nology transfer related to asset management;
7 and

8 “(G) evaluation of traffic calming meas-
9 ures that promote community preservation,
10 transportation mode choice, and safety.

11 “(3) Research, development, and technology
12 transfer to improve safety.

13 “(4) Research and development to support the
14 evaluation of how the surface transportation system
15 and individual surface transportation projects meet
16 the goals of the surface transportation system stated
17 in section 102(a) of the Surface Transportation Re-
18 search and Development Act of 2004, including, as
19 appropriate—

20 “(A) development, use, and dissemination
21 of indicators, including appropriate computer
22 programs for collecting and analyzing data on
23 the status of infrastructure facilities, to meas-
24 ure the performance of the surface transpor-
25 tation systems of the United States, including



1 productivity, efficiency, energy use, air quality,
2 congestion, safety, maintenance, and other fac-
3 tors that reflect system performance; and

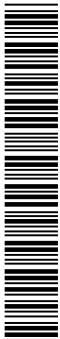
4 “(B) research on, and dissemination of
5 recommendations and best practices aimed at
6 addressing, nontechnical barriers to technology
7 deployment (such as fragmented local authority,
8 rigid procurement rules, and privacy and liabil-
9 ity considerations).

10 “(5) To assess how the surface transportation
11 system affects and is affected by social systems, in-
12 cluding, as appropriate—

13 “(A) research aimed at understanding how
14 emerging trends (including demographic, eco-
15 nomic, and social trends) will affect surface
16 transportation usage and needs;

17 “(B) research on how land use affects and
18 is affected by surface transportation invest-
19 ments; and

20 “(C) telecommuting and the linkages be-
21 tween transportation, information technology,
22 and community development, and the impact of
23 technological change and economic restruc-
24 turing on travel demand.



1 “(6) Environmental research and development,
2 including research described in the Transportation
3 Research Board Special Report 268, entitled ‘Sur-
4 face Transportation Environmental Research: A
5 Long-Term Strategy’ published in 2002.

6 “(7) Exploratory advanced research in any of
7 the preceding areas.

8 “(8) Any other surface transportation research
9 and development topics that the Secretary deter-
10 mines, in accordance with the strategic planning
11 process under section 508, to be critical.”;

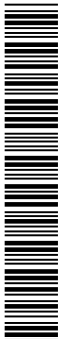
12 (3) in subsection (d)—

13 (A) in paragraph (1), by inserting “explor-
14 atory” after “shall establish an”; and

15 (B) by striking paragraph (2) and insert-
16 ing the following new paragraphs:

17 “(2) PURPOSE.—The purpose of the research
18 program under this subsection shall be to achieve
19 breakthroughs in transportation research. Explor-
20 atory advanced research should have a broader ob-
21 jective, longer time frame, multidisciplinary nature,
22 and have both a higher risk and a higher potential
23 payoff than for problem-solving research.

24 “(3) WORKSHOP.—The Secretary shall convene
25 a workshop with appropriate researchers and policy-

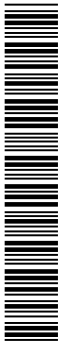


1 makers from Federal and State agencies, as well as
2 academic researchers. The purpose of the workshop
3 shall be to determine priority areas of exploratory
4 advanced research and to identify the best way to
5 accomplish this research (such as through Federal
6 laboratories or academic researchers). The workshop
7 shall include a diverse group of stakeholders. The
8 Secretary shall make the results of the workshop
9 widely available to the public. The workshop shall be
10 held within 6 months after the date of the enact-
11 ment of this paragraph.

12 “(4) GRANT PROGRAM.—The Secretary may ad-
13 minister a competitive, peer-reviewed grant program
14 to support exploratory advanced research.

15 “(5) REPORT.—The President’s annual budget
16 request to the Congress shall indicate the amount of
17 funding used in the previous fiscal year, and pro-
18 posed for the next fiscal year, to support exploratory
19 advanced research under this subsection, including
20 the amount used to support extramural research
21 grants in exploratory advanced research under this
22 subsection.”;

23 (4) in subsection (e), by striking “(105 Stat.”
24 and all that follows through “performance program”



1 and inserting “and the Transportation Equity Act
2 for the 21st Century”;

3 (5) by redesignating subsections (f) and (g) as
4 subsections (g) and (h), respectively, and by insert-
5 ing after subsection (e) the following new subsection:

6 “(f) LONG-TERM BRIDGE PERFORMANCE PRO-
7 GRAM.—

8 “(1) AUTHORITY.—The Secretary shall estab-
9 lish a 20-year, long-term bridge performance pro-
10 gram.

11 “(2) GRANTS, COOPERATIVE AGREEMENTS, AND
12 CONTRACTS.—Under the program, the Secretary
13 shall make grants and enter into cooperative agree-
14 ments and contracts to—

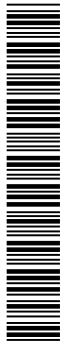
15 “(A) monitor, material-test, and evaluate
16 test bridges;

17 “(B) analyze the data obtained in carrying
18 out subparagraph (A); and

19 “(C) prepare products to fulfill program
20 objectives and meet future bridge technology
21 needs.”;

22 (6) in subsection (h), as so redesignated by
23 paragraph (5) of this subsection—

24 (A) in paragraph (1), by striking “January
25 31, 1999” and inserting “July 31, 2004”; and



1 (B) in paragraph (2), by striking “bian-
2 nual reports” and all that follows through
3 “21st Century” and inserting “previous reports
4 under this subsection”; and
5 (7) by adding at the end the following new sub-
6 section:

7 “(i) TURNER-FAIRBANK HIGHWAY RESEARCH CEN-
8 TER.—

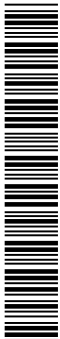
9 “(1) IN GENERAL.—The Secretary shall operate
10 in the Federal Highway Administration a Turner-
11 Fairbank Highway Research Center.

12 “(2) USES OF THE CENTER.—The Turner-
13 Fairbank Highway Research Center shall support
14 the—

15 “(A) conduct of highway research and de-
16 velopment related to new highway technology;

17 “(B) development of understandings, tools,
18 and techniques that provide solutions to com-
19 plex technical problems through the develop-
20 ment of economical and environmentally sen-
21 sitive designs, efficient and quality controlled
22 construction practices, and durable materials;
23 and

24 “(C) development of innovative highway
25 products and practices.”.



1 (b) GEOSPATIAL INFORMATION SYSTEMS.—Section
2 5113 of the Transportation Equity Act for the 21st Cen-
3 tury (23 U.S.C. 502 note) is amended by revising sub-
4 section (b) to read as follows:

5 “(b) PROGRAM.—

6 “(1) NATIONAL POLICY.—The Secretary shall
7 establish and maintain a national policy for the use
8 of commercial remote sensing products and
9 geospatial information technologies in national
10 transportation infrastructure development and con-
11 struction.

12 “(2) POLICY IMPLEMENTATION.—The Sec-
13 retary shall develop new applications of commercial
14 remote sensing products and geospatial information
15 technologies for the implementation of the national
16 policy established and maintained under (b)(1) of
17 this section.”.

18 (c) ENVIRONMENT AND PLANNING.—

19 (1) AMENDMENT.—Section 507 of title 23,
20 United States Code, is amended to read as follows:

21 **“§ 507. Surface Transportation Environment and**
22 **Planning Cooperative Research Program**

23 “(a) IN GENERAL.—

24 “(1) ESTABLISHMENT.—The Secretary shall es-
25 tablish and support a collaborative, public-private,



1 multimodal surface transportation environment and
2 planning cooperative research and development pro-
3 gram.

4 “(2) PROGRAM.—The program established
5 under paragraph (1) shall solely carry out research
6 and development called for in the Transportation
7 Research Board Special Report 268, entitled ‘Sur-
8 face Transportation Environmental Research: A
9 Long-Term Strategy’, published in 2002, which in-
10 cluded the following research and development areas:

11 “(A) Human Health.

12 “(B) Ecology and Natural Systems.

13 “(C) Environmental and Social Justice.

14 “(D) Emerging Technologies.

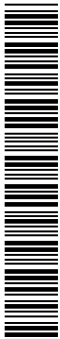
15 “(E) Land Use.

16 “(F) Planning and Performance Measures.

17 “(b) ADMINISTRATION.—

18 “(1) AGREEMENT.—The Secretary shall enter
19 into an arrangement with the National Research
20 Council, or another nonprofit research organization,
21 such as the Health Effects Institute, to administer
22 the program established under subsection (a)(1).

23 “(2) DISSEMINATION OF RESEARCH AND DE-
24 VELOPMENT FINDINGS.—The organization described
25 in paragraph (1) and the Department of Transpor-



1 tation shall proactively disseminate research and de-
2 velopment findings under this section to researchers,
3 practitioners, and decisionmakers.

4 “(c) ADVISORY BOARD.—

5 “(1) ESTABLISHMENT.—The organization de-
6 scribed in subsection (b)(1) shall establish an advi-
7 sory board.

8 “(2) MEMBERSHIP.—The advisory board shall
9 be balanced, and shall include—

10 “(A) representatives from public interest
11 groups representing the environment;

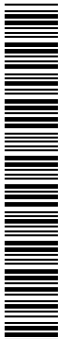
12 “(B) representatives of State, regional, and
13 local transportation agencies, including metro-
14 politan planning organizations and transit agen-
15 cies;

16 “(C) representatives of State environ-
17 mental agencies;

18 “(D) transportation and environmental sci-
19 entists and engineers; and

20 “(E) representatives of Federal agencies,
21 including the Department of Transportation,
22 the Environmental Protection Agency, and the
23 National Science Foundation.

24 “(3) RESPONSIBILITIES.—The advisory board
25 shall—



1 “(A) develop an annual research and devel-
2 opment agenda to carry out research and devel-
3 opment activities described in subsection (a)(2);

4 “(B) solicit research proposals to carry out
5 the research and development agenda, and over-
6 see peer review of proposals;

7 “(C) develop project selection criteria
8 through an open and public consultation proc-
9 ess with stakeholders; and

10 “(D) select projects for funding.

11 “(4) CRITERIA.—In developing criteria, the ad-
12 visory board shall give priority to proposals that—

13 “(A) are designed to develop fundamental
14 knowledge;

15 “(B) are interdisciplinary and involve part-
16 nerships; and

17 “(C) include significant matching funds.

18 “(d) PROJECT FUNDING.—In addition to using funds
19 authorized for this section, the organization described in
20 subsection (b)(1) is encouraged to seek and accept addi-
21 tional funding sources from public and private entities.

22 “(e) ANNUAL REPORT.—The organization described
23 in subsection (b)(1) shall prepare and transmit to the Sec-
24 retary and the Congress an annual report that includes
25 a project summary for every project funded under this sec-



1 tion. Each summary shall describe the project, summarize
2 its status and funding levels, and identify sources of fund-
3 ing.”.

4 (2) CONFORMING AMENDMENT.—The analysis
5 for chapter 5 of title 23, United States Code, is
6 amended by striking the item related to section 507
7 and inserting the following:

“507. Surface transportation environment and planning cooperative research
program.”.

8 (d) NATIONAL MULTIMODAL TRENDS POLICY RE-
9 SEARCH AND DEVELOPMENT PROGRAM.—

10 (1) IN GENERAL.—The Secretary shall carry
11 out a National Multimodal Trends Policy Research
12 and Development Program that systematically ad-
13 dresses critical short-term, medium-term, and long-
14 term social science issues affecting and affected by
15 the transportation system.

16 (2) CONTENTS.—The program to be carried out
17 under this subsection shall include research and de-
18 velopment on—

19 (A) how, and the extent to which, the over-
20 all transportation system is meeting the goals
21 set forth in the Transportation Equity Act for
22 the 21st Century, and how to improve evalua-
23 tion methodologies and performance measures;



1 (B) the development of policy analysis
2 tools and methods for use by decisionmakers;

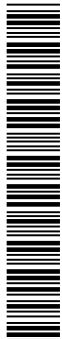
3 (C) the critical factors and major trends
4 affecting the success and performance of the
5 Nation's transportation system, as well as how
6 such information can be incorporated into na-
7 tional, State, and local decisionmaking;

8 (D) economic, demographic, and social
9 trends that are affecting and are affected by
10 the transportation system, including such topics
11 as—

12 (i) economic trends, including inter-
13 national trade and its effects on the trans-
14 portation of people and goods, rapidly
15 changing information technology, the
16 changing nature of metropolitan econo-
17 mies, diversification of employment sites,
18 and innovations in goods movement;

19 (ii) demographic trends, changing res-
20 idential patterns, and the aging of the pop-
21 ulation; and

22 (iii) social trends, including income
23 disparity, access of underserved popu-
24 lations to jobs, services and health care,
25 the needs of rural populations, and the ef-



1 fects of new technologies on driver behav-
2 ior;

3 (E) how institutional factors affect the de-
4 velopment and successful deployment of new
5 technologies; and

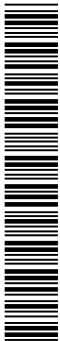
6 (F) other critical issues identified by the
7 Advisory Board established under paragraph
8 (4).

9 (3) ESTABLISHMENT.—The Secretary shall
10 enter into an arrangement with the National Re-
11 search Council to establish the advisory board under
12 paragraph (4) and to administer the program.

13 (4) ADVISORY BOARD.—

14 (A) MEMBERSHIP.—A majority of mem-
15 bers of the advisory board shall be experts in a
16 broad array of social science fields. Additional
17 members of the advisory board shall be bal-
18 anced among representatives of Federal, State,
19 and local transportation agencies, other agen-
20 cies with appropriate expertise, metropolitan
21 planning organizations, transit operating agen-
22 cies, and environmental and other nonprofit or-
23 ganizations.

24 (B) RESPONSIBILITIES.—The advisory
25 board shall—



1 (i) develop a detailed research and de-
2 velopment agenda, which shall serve as the
3 basis of the annual project solicitation;

4 (ii) annually solicit project proposals,
5 through open competition and peer review
6 of research and development proposals;
7 and

8 (iii) develop project selection criteria,
9 through an open and public consultation
10 process with stakeholders.

11 (5) DISSEMINATION OF RESEARCH AND DEVEL-
12 OPMENT FINDINGS.—The National Research Council
13 and the Department of Transportation shall dissemi-
14 nate research and development findings under this
15 subsection to researchers, practitioners, and deci-
16 sionmakers.

17 **SEC. 105. TECHNOLOGY DEPLOYMENT.**

18 (a) TECHNOLOGY DEPLOYMENT PROGRAM.—Section
19 503(a) of title 23, United States Code, is amended—

20 (1) in the subsection heading, by striking “INI-
21 TIATIVES AND PARTNERSHIPS”;

22 (2) by striking paragraph (1) and inserting the
23 following:



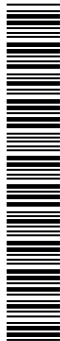
1 “(1) ESTABLISHMENT.—The Secretary shall
2 develop and administer a national technology deploy-
3 ment program.”;

4 (3) by striking paragraph (7) and inserting the
5 following:

6 “(7) GRANTS, COOPERATIVE AGREEMENTS, AND
7 CONTRACTS.—

8 “(A) IN GENERAL.—Under the program,
9 the Secretary shall make grants to, and enter
10 into cooperative agreements and contracts with,
11 States, other Federal agencies, universities and
12 colleges, private sector entities, and nonprofit
13 organizations to pay the Federal share of the
14 cost of research, development, and technology
15 transfer concerning innovative materials.

16 “(B) APPLICATIONS.—To receive a grant
17 under this subsection, an entity described in
18 subparagraph (A) shall submit an application to
19 the Secretary. The application shall be in such
20 form and contain such information as the Sec-
21 retary may require. The Secretary shall select
22 and approve the applications based on open
23 competition and peer review, and on whether
24 the project that is the subject of the grant



1 serves the purpose of the program described in
2 paragraph (2).”;

3 (4) by striking paragraph (8);

4 (5) by redesignating paragraph (9) as para-
5 graph (10); and

6 (6) by inserting after paragraph (7) the fol-
7 lowing:

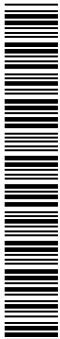
8 “(8) TECHNOLOGY AND INFORMATION TRANS-
9 FER.—The Secretary shall ensure that the informa-
10 tion and technology resulting from research and de-
11 velopment conducted under paragraph (3) is made
12 available to State and local transportation depart-
13 ments and other interested parties as specified by
14 the Secretary.

15 “(9) FEDERAL SHARE.—The Federal share of
16 the cost of a project under this section shall be de-
17 termined by the Secretary.”.

18 (b) INNOVATIVE BRIDGE RESEARCH AND DEPLOY-
19 MENT PROGRAM.—

20 (1) IN GENERAL.—Section 503(b) of title 23,
21 United States Code, is amended by striking para-
22 graph (1) and inserting:

23 “(1) IN GENERAL.—The Secretary shall estab-
24 lish and carry out a program to promote, dem-
25 onstrate, evaluate, and document the application of



1 innovative designs, materials and construction meth-
2 ods in the construction, repair, and rehabilitation of
3 bridges and other highway structures.”.

4 (2) GOALS.—Section 503(b) of such title is
5 amended by striking paragraph (2) and inserting:

6 “(2) GOALS.—The goals of the program shall
7 include—

8 “(A) the development of new, cost-effec-
9 tive, innovative highway bridge applications;

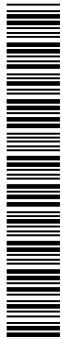
10 “(B) the development of construction tech-
11 niques to increase safety and reduce construc-
12 tion time and traffic congestion;

13 “(C) the development of engineering design
14 criteria for innovative products, materials, and
15 structural systems for use in highway bridges
16 and structures;

17 “(D) the reduction of maintenance costs
18 and life-cycle costs of bridges, including the
19 costs of new construction, replacement, or reha-
20 bilitation of deficient bridges;

21 “(E) the development of highway bridges
22 and structures that will withstand natural dis-
23 asters and terrorist attacks;

24 “(F) the documentation and wide dissemi-
25 nation of objective evaluations of the perform-



1 ance and benefits of these innovative designs,
2 materials, and construction methods; and
3 “(G) the effective transfer of resulting in-
4 formation and technology.”.

5 (c) INNOVATIVE PAVEMENT RESEARCH AND DE-
6 PLOYMENT PROGRAM.—Section 503 of title 23, United
7 States Code, is amended by adding after subsection (b)
8 the following:

9 “(c) INNOVATIVE PAVEMENT RESEARCH AND DE-
10 PLOYMENT PROGRAM.—

11 “(1) IN GENERAL.—The Secretary shall estab-
12 lish and implement a program to promote, dem-
13 onstrate, support, and document the application of
14 innovative pavement technologies, practices, per-
15 formance, and benefits.

16 “(2) GOALS.—The goals of the innovative pave-
17 ment research and deployment program shall
18 include—

19 “(A) the deployment of new, cost-effective
20 innovative designs, materials, and practices to
21 extend pavement life and performance and to
22 improve customer satisfaction;

23 “(B) the reduction of initial costs and life-
24 cycle costs of pavements, including the costs of



1 new construction, replacement, maintenance,
2 and rehabilitation;

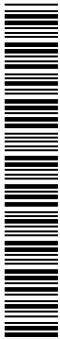
3 “(C) the deployment of accelerated con-
4 struction techniques, including innovative pave-
5 ment materials, to increase safety and reduce
6 construction time and traffic disruption and
7 congestion;

8 “(D) the deployment of engineering design
9 criteria and specifications for innovative prac-
10 tices, products, and materials for use in high-
11 way pavements;

12 “(E) the deployment of new nondestructive
13 and real time pavement evaluation technologies
14 and techniques;

15 “(F) evaluation, refinement, and docu-
16 mentation of the performance and benefits of
17 innovative technologies deployed to improve life,
18 performance, cost effectiveness, safety, and cus-
19 tomer satisfaction;

20 “(G) effective technology transfer and in-
21 formation dissemination to accelerate imple-
22 mentation of innovative technologies and to im-
23 prove life, performance, cost effectiveness, safe-
24 ty, and customer satisfaction; and



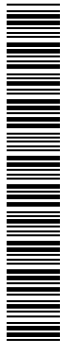
1 “(H) the development of designs and mate-
2 rials to reduce storm water runoff.

3 “(3) GRANTS, COOPERATIVE AGREEMENTS, AND
4 CONTRACTS.—

5 “(A) IN GENERAL.—Under the program,
6 the Secretary shall make grants to, and enter
7 into cooperative agreements and contracts with
8 States, other Federal agencies, universities and
9 colleges, private sector entities, and nonprofit
10 organizations for research, development, and
11 technology transfer for innovative safety tech-
12 nologies.

13 “(B) APPLICATIONS.—To receive a grant
14 under this subsection, an entity described in
15 subparagraph (A) shall submit an application to
16 the Secretary. The application shall be in such
17 form and contain such information as the Sec-
18 retary may require. The Secretary shall select
19 and approve the applications based on open
20 competition and peer review, and on whether
21 the project that is the subject of the grant
22 meets the goals of the program described in
23 paragraph (2).

24 “(4) TECHNOLOGY AND INFORMATION TRANS-
25 FER.—The Secretary shall take such action as is



1 necessary to ensure that the information and tech-
2 nology resulting from research conducted under
3 paragraph (3) is made available to State and local
4 transportation departments and other interested
5 parties as specified by the Secretary.”.

6 (d) SAFETY INNOVATION DEPLOYMENT PROGRAM.—

7 Section 503 of title 23, United States Code, as amended
8 by this Act, is further amended by adding the following:

9 “(d) SAFETY INNOVATION DEPLOYMENT PRO-
10 GRAM.—

11 “(1) IN GENERAL.—The Secretary shall estab-
12 lish and implement a program to demonstrate the
13 application of innovative technologies in highway
14 safety.

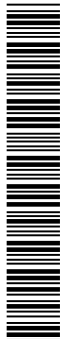
15 “(2) GOALS.—The goals of the program shall
16 include—

17 “(A) the deployment and evaluation of
18 safety technologies and innovations at state and
19 local levels; and

20 “(B) the deployment of best practices in
21 training, management, design, and planning.

22 “(3) GRANTS, COOPERATIVE AGREEMENTS, AND
23 CONTRACTS.—

24 “(A) IN GENERAL.—Under the program,
25 the Secretary shall make grants to, and enter



1 into cooperative agreements and contracts with
2 States, other Federal agencies, universities and
3 colleges, private sector entities, and nonprofit
4 organizations for research, development, and
5 technology transfer for innovative safety tech-
6 nologies.

7 “(B) APPLICATIONS.—To receive a grant
8 under this subsection, an entity described in
9 subparagraph (A) shall submit an application to
10 the Secretary. The application shall be in such
11 form and contain such information as the Sec-
12 retary may require. The Secretary shall select
13 and approve the applications based on open
14 competition and peer review, and on whether
15 the project that is the subject of the grant
16 meets the goals of the program described in
17 paragraph (2).

18 “(4) TECHNOLOGY AND INFORMATION TRANS-
19 FER.—The Secretary shall take such action as is
20 necessary to ensure that the information and tech-
21 nology resulting from research conducted under
22 paragraph (3) is made available to State and local
23 transportation departments and other interested
24 parties as specified by the Secretary.”.



1 **SEC. 106. TRAINING AND EDUCATION.**

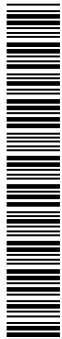
2 (a) NATIONAL HIGHWAY INSTITUTE.—Section
3 504(a) of title 23, United States Code, is amended by
4 striking paragraph (3) and inserting the following:

5 “(3) COURSES.—

6 “(A) IN GENERAL.—The Institute shall de-
7 velop or update courses in the subject areas of
8 asset management, application of emerging
9 technologies, including intelligent transportation
10 systems, techniques, methods, regulations, in-
11 formation technology, general management, en-
12 vironmental stewardship, acquisition of rights-
13 of-way, relocation assistance, engineering, safe-
14 ty, transportation system management and op-
15 erations, construction, maintenance, contract
16 administration, inspection, and finance.

17 “(B) ADDITIONAL COURSES.—In addition
18 to the courses in the subject matter areas de-
19 scribed in subparagraph (A), the Institute, in
20 consultation with State transportation depart-
21 ments and the American Association of State
22 Highway and Transportation Officials, may de-
23 velop other courses as it considers necessary.

24 “(C) REVISION OF COURSES OFFERED.—
25 The Institute shall periodically—



1 “(i) review the course inventory of the
2 Institute; and
3 “(ii) revise or cease to offer courses
4 based on course content, applicability, and
5 need.”.

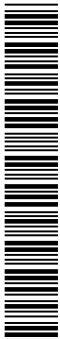
6 (b) LOCAL TECHNICAL ASSISTANCE PROGRAM.—
7 Section 504(b) of title 23, United States Code, is amended
8 by adding at the end the following:

9 “(3) FEDERAL SHARE.—

10 “(A) GRANTS.—The grant funds author-
11 ized to carry out this subsection may be used
12 to cover up to 50 percent of the program costs
13 relating to local technical assistance. Funds
14 available for technology transfer and training
15 purposes under this title and title 49 may be
16 used to cover the remaining 50 percent of the
17 program costs.

18 “(B) TRIBAL TECHNICAL ASSISTANCE
19 CENTERS.—The Federal share of the cost of ac-
20 tivities carried out by the tribal technical assist-
21 ance centers under paragraph (2)(D)(ii) of this
22 subsection shall be 100 percent.”.

23 (c) SURFACE TRANSPORTATION WORKFORCE DE-
24 VELOPMENT, TRAINING, AND EDUCATION.—Section 504



1 of title 23, United States Code, is amended by adding at
2 the end the following:

3 “(d) SURFACE TRANSPORTATION WORKFORCE DE-
4 VELOPMENT, TRAINING, AND EDUCATION.—

5 “(1) FUNDING.—Subject to project approval by
6 the Secretary, a State may obligate funds appor-
7 tioned to it under sections 104(b)(1), (3), and (4)
8 and 144(e) of this title for surface transportation
9 workforce development, training and education,
10 including—

11 “(A) tuition and direct educational ex-
12 penses, excluding salaries, in connection with
13 the education and training of employees of
14 State and local transportation agencies;

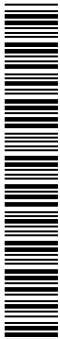
15 “(B) employee professional development;

16 “(C) student internships; or

17 “(D) education outreach activities to de-
18 velop interest and promote participation in sur-
19 face transportation careers.

20 “(2) FEDERAL SHARE.—The Federal share of
21 the cost of activities carried out in accordance with
22 this subsection shall be 100 percent.”.

23 (d) DEFINITIONS AND DECLARATION OF POLICY.—
24 Section 101(a) of title 23, United States Code, is
25 amended—



1 (1) in paragraph (3), by—

2 (A) striking “and” after subparagraph
3 (H);

4 (B) striking the period after subparagraph
5 (I) and inserting “; and”; and

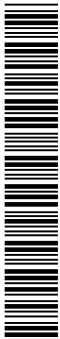
6 (C) adding after subparagraph (I) the fol-
7 lowing:

8 “(J) surface transportation workforce de-
9 velopment, training, and education.”;

10 (2) by redesignating paragraphs (34) through
11 (37) as paragraphs (35) through (38) respectively;
12 and

13 (3) by adding after paragraph (33), as redesign-
14 nated by this Act, the following:

15 “(34) SURFACE TRANSPORTATION WORKFORCE
16 DEVELOPMENT, TRAINING, AND EDUCATION.—The
17 term ‘surface transportation workforce development,
18 training, and education’ means activities associated
19 with surface transportation career awareness, stu-
20 dent transportation career preparation, and training
21 and professional development for surface transpor-
22 tation workers, including activities for women and
23 minorities.”.



1 **SEC. 107. BUREAU OF TRANSPORTATION STATISTICS.**

2 Section 111 of title 49, United States Code, is
3 amended to read as follows:

4 **“§ 111. Bureau of Transportation Statistics**

5 “(a) ESTABLISHMENT.—There is established in the
6 Department of Transportation a Bureau of Transpor-
7 tation Statistics.

8 “(b) DIRECTOR.—

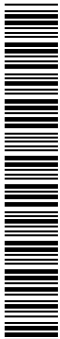
9 “(1) APPOINTMENT.—The Bureau shall be
10 headed by a Director who shall be appointed by the
11 President, by and with the advice and consent of the
12 Senate.

13 “(2) QUALIFICATIONS.—The Director shall be
14 appointed from among individuals who are qualified
15 to serve as the Director by virtue of their training
16 and experience in the collection, analysis, and use of
17 transportation statistics.

18 “(3) REPORTING.—The Director shall report
19 directly to the Secretary.

20 “(4) TERM.—The term of the Director shall be
21 5 years. The Director may continue to serve after
22 the expiration of the term until a successor is ap-
23 pointed and confirmed.

24 “(c) RESPONSIBILITIES.—The Director of the Bu-
25 reau shall serve as the Secretary’s senior advisor on data



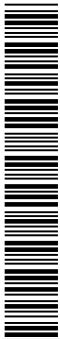
1 and statistics, and shall be responsible for carrying out
2 the following duties:

3 “(1) PROVIDING DATA, STATISTICS, AND ANAL-
4 YSIS TO TRANSPORTATION DECISIONMAKERS.—En-
5 suring that the statistics compiled under paragraph
6 (5) are designed to support transportation decision-
7 making by the Federal Government, State and local
8 governments, metropolitan planning organizations,
9 transportation-related associations, the private sec-
10 tor (including the freight community), and the pub-
11 lic.

12 “(2) COORDINATING COLLECTION OF INFORMA-
13 TION.—Working with the operating administrations
14 of the Department to establish and implement the
15 Bureau’s data programs and to improve the coordi-
16 nation of information collection efforts with other
17 Federal agencies.

18 “(3) DATA MODERNIZATION.—Continually im-
19 proving surveys and data collection methods to im-
20 prove the accuracy and utility of transportation sta-
21 tistics.

22 “(4) ENCOURAGING DATA STANDARDIZATION.—
23 Encouraging the standardization of data, data col-
24 lection methods, and data management and storage
25 technologies for data collected by the Bureau, the



1 operating administrations of the Department of
2 Transportation, States, local governments, metro-
3 politan planning organizations, and private sector
4 entities.

5 “(5) COMPILING TRANSPORTATION STATIS-
6 TICS.—Compiling, analyzing, and publishing a com-
7 prehensive set of transportation statistics on the per-
8 formance and impacts of the national transportation
9 system, including statistics on—

10 “(A) productivity in various parts of the
11 transportation sector;

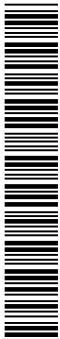
12 “(B) traffic flows for all modes of trans-
13 portation;

14 “(C) other elements of the Intermodal
15 Transportation Database established under sub-
16 section (g);

17 “(D) travel times and measures of conges-
18 tion;

19 “(E) vehicle weights and other vehicle
20 characteristics;

21 “(F) demographic, economic, and other
22 variables influencing traveling behavior, includ-
23 ing choice of transportation mode, and goods
24 movement;



1 “(G) transportation costs for passenger
2 travel and goods movement;

3 “(H) availability and use of mass transit
4 (including the number of passengers served by
5 each mass transit authority) and other forms of
6 for-hire passenger travel;

7 “(I) frequency of vehicle and transpor-
8 tation facility repairs and other interruptions of
9 transportation service;

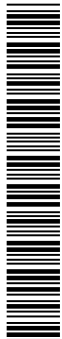
10 “(J) safety and security for travelers, vehi-
11 cles, and transportation systems;

12 “(K) consequences of transportation for
13 the human and natural environment;

14 “(L) the extent, connectivity, and condition
15 of the transportation system, building on the
16 National Transportation Atlas Database devel-
17 oped under subsection (g); and

18 “(M) transportation-related variables that
19 influence the domestic economy and global com-
20 petitiveness.

21 “(6) NATIONAL SPATIAL DATA INFRASTRUC-
22 TURE.—Building and disseminating the transpor-
23 tation layer of the National Spatial Data Infrastruc-
24 ture, including coordinating the development of
25 transportation geospatial data standards, compiling



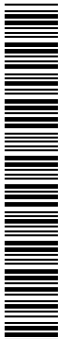
1 intermodal geospatial data, and collecting geospatial
2 data that is not being collected by others.

3 “(7) ISSUING GUIDELINES.—Issuing guidelines
4 for the collection of information by the Department
5 of Transportation required for statistics to be com-
6 piled under paragraph (5) in order to ensure that
7 such information is accurate, reliable, relevant, and
8 in a form that permits systematic analysis. The Bu-
9 reau shall review and report to the Secretary of
10 Transportation on the sources and reliability of the
11 statistics proposed by the heads of the operating ad-
12 ministrations of the Department to measure outputs
13 and outcomes as required by the Government Per-
14 formance and Results Act of 1993, and the amend-
15 ments made by such Act, and shall carry out such
16 other reviews of the sources and reliability of other
17 data collected or statistical information published by
18 the heads of the operating administrations of the
19 Department as shall be requested by the Secretary.

20 “(8) MAKING STATISTICS ACCESSIBLE.—Mak-
21 ing the statistics published under this subsection
22 readily accessible.

23 “(d) INFORMATION NEEDS ASSESSMENT.—

24 “(1) IN GENERAL.—Within 60 days after the
25 date of the enactment of the Surface Transportation



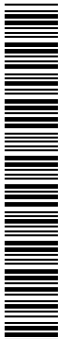
1 Research and Development Act of 2004, the Sec-
2 retary shall enter into an arrangement with the Na-
3 tional Research Council to develop and publish a
4 National Transportation Information Needs Assess-
5 ment. The Assessment shall be transmitted to the
6 Secretary and the Congress not later than 24
7 months after such arrangement is entered into.

8 “(2) CONTENT.—The Assessment shall—

9 “(A) identify, in priority order, transpor-
10 tation data that is not being collected by the
11 Bureau, Department of Transportation oper-
12 ating administrations, or other Federal, State,
13 or local entities, but is needed to improve trans-
14 portation decisionmaking at the Federal, State,
15 and local level and to fulfill the requirements of
16 subsection (c)(5);

17 “(B) recommend whether the data identi-
18 fied in subparagraph (A) should be collected by
19 the Bureau, other parts of the Department, or
20 by other Federal, State, or local entities, and
21 whether any data is a higher priority than data
22 currently being collected;

23 “(C) identify any data the Bureau or other
24 Federal, State, and local entities is collecting
25 that is not needed;

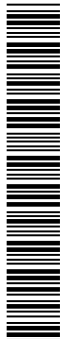


1 “(D) describe new data collection methods
2 (including changes in surveys) and other
3 changes the Bureau or other Federal, State,
4 and local entities should implement to improve
5 the standardization, accuracy, and utility of
6 transportation data and statistics; and

7 “(E) estimate the cost of implementing
8 any recommendations.

9 “(3) CONSULTATION.—In developing the As-
10 sessment, the National Research Council shall con-
11 sult with the Department’s Advisory Council on
12 Transportation Statistics and a representative cross-
13 section of transportation community stakeholders as
14 well as other Federal agencies, including the Envi-
15 ronmental Protection Agency, the Department of
16 Energy, and the Department of Housing and Urban
17 Development.

18 “(4) REPORT TO CONGRESS.—Not later than 6
19 months after the National Research Council trans-
20 mits the Needs Assessment under paragraph (1), the
21 Secretary shall transmit a report to the Committee
22 on Science and the Committee on Transportation
23 and Infrastructure of the House of Representatives,
24 and to the Committee on Environment and Public
25 Works of the Senate, that describes—



1 “(A) how the Department plans to fill the
2 data gaps identified under paragraph (2)(A);

3 “(B) how the Department plans to stop
4 collecting data identified under paragraph
5 (2)(C);

6 “(C) how the Department plans to imple-
7 ment improved data collection methods and
8 other changes identified under paragraph
9 (2)(D);

10 “(D) the expected costs of implementing
11 subparagraphs (A), (B), and (C) of this para-
12 graph;

13 “(E) any findings of the Needs Assessment
14 under paragraph (1) with which the Secretary
15 disagrees, and why; and

16 “(F) any proposed statutory changes need-
17 ed to implement the findings if the Needs As-
18 sessment under paragraph (1).

19 “(e) INTERMODAL TRANSPORTATION DATA BASE.—

20 “(1) IN GENERAL.—In consultation with the
21 Under Secretary for Policy, the Assistant Secre-
22 taries, and the heads of the operating administra-
23 tions of the Department of Transportation, the Di-
24 rector shall establish and maintain a transportation
25 data base for all modes of transportation.



1 “(2) USE.—The data base shall be suitable for
2 analyses carried out by the Federal Government, the
3 States, and metropolitan planning organizations.

4 “(3) CONTENTS.—The data base shall
5 include—

6 “(A) information on the volumes and pat-
7 terns of movement of goods, including local,
8 interregional, and international movement, by
9 all modes of transportation and intermodal
10 combinations, and by relevant classification;

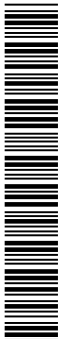
11 “(B) information on the volumes and pat-
12 terns of movement of people, including local,
13 interregional, and international movements, by
14 all modes of transportation (including bicycle
15 and pedestrian modes) and intermodal combina-
16 tions, and by relevant classification;

17 “(C) information on the location and
18 connectivity of transportation facilities and
19 services; and

20 “(D) a national accounting of expenditures
21 and capital stocks on each mode of transpor-
22 tation and intermodal combination.

23 “(f) NATIONAL TRANSPORTATION LIBRARY.—

24 “(1) IN GENERAL.—The Director shall establish
25 and maintain a National Transportation Library,



1 which shall contain a collection of statistical and
2 other information needed for transportation decision-
3 making at the Federal, State, and local levels.

4 “(2) ACCESS.—The Director shall facilitate and
5 promote access to the Library, with the goal of im-
6 proving the ability of the transportation community
7 to share information and the ability of the Director
8 to make statistics readily accessible under subsection
9 (c)(8).

10 “(3) COORDINATION.—The Director shall work
11 with other transportation libraries and other trans-
12 portation information providers, both public and pri-
13 vate, to achieve the goal specified in paragraph (2).

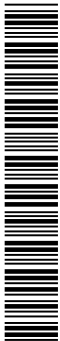
14 “(g) NATIONAL TRANSPORTATION ATLAS DATA
15 BASE.—

16 “(1) IN GENERAL.—The Director shall develop
17 and maintain geospatial data bases that depict—

18 “(A) transportation networks;

19 “(B) flows of people, goods, vehicles, and
20 craft over the networks; and

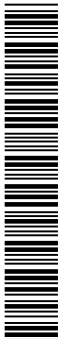
21 “(C) social, economic, and environmental
22 conditions that affect or are affected by the net-
23 works.



1 “(2) INTERMODAL NETWORK ANALYSIS.—The
2 data bases shall be able to support intermodal net-
3 work analysis.

4 “(h) MANDATORY RESPONSE AUTHORITY FOR
5 FREIGHT DATA COLLECTION.—Whoever, being the
6 owner, official, agent, person in charge, or assistant to the
7 person in charge, of any corporation, company, business,
8 institution, establishment, or organization of any nature
9 whatsoever, neglects or refuses, when requested by the Di-
10 rector or other authorized officer, employee or contractor
11 of the Bureau, to answer completely and correctly to the
12 best of his/her knowledge all questions relating to the cor-
13 poration, company, business, institution, establishment, or
14 other organization, or to records or statistics in his/her
15 official custody, contained in a data collection request pre-
16 pared and submitted as part of the collection of freight
17 data, shall be fined not more than \$500; and if the indi-
18 vidual willfully gives a false answer to a question, shall
19 be fined not more than \$10,000.

20 “(i) RESEARCH AND DEVELOPMENT GRANTS.—The
21 Secretary may make grants to, or enter into cooperative
22 agreements or contracts with, public and nonprofit private
23 entities (including State transportation departments, met-
24 ropolitan planning organizations, and institutions of high-
25 er education) for—



1 “(1) investigation of the subjects specified in
2 subsection (c)(5) and research and development of
3 new methods of data collection, standardization,
4 management, integration, dissemination, interpreta-
5 tion, and analysis;

6 “(2) demonstration programs by States, local
7 governments, and metropolitan planning organiza-
8 tions to harmonize data collection, reporting, man-
9 agement, storage, and archiving to simplify data
10 comparisons across jurisdictions;

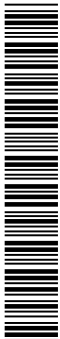
11 “(3) development of electronic clearinghouses of
12 transportation data and related information, as part
13 of the National Transportation Library under sub-
14 section (f); and

15 “(4) development and improvement of methods
16 for sharing geographic data, in support of the na-
17 tional transportation atlas data base under sub-
18 section (g) and the National Spatial Data Infra-
19 structure developed under Executive Order No.
20 12906.

21 “(j) LIMITATIONS ON STATUTORY CONSTRUCTION.—

22 Nothing in this section shall be construed—

23 “(1) to authorize the Bureau to require any
24 other department or agency to collect data; or



1 “(2) to reduce the authority of any other officer
2 of the Department of Transportation to collect and
3 disseminate data independently.

4 “(k) PROHIBITION ON CERTAIN DISCLOSURES.—

5 “(1) IN GENERAL.—An officer or employee of
6 the Bureau may not—

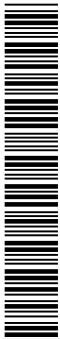
7 “(A) make any disclosure in which the
8 data provided by an individual or organization
9 under subsection (c) can be identified;

10 “(B) use the information provided under
11 subsection (c) for a nonstatistical purpose; or

12 “(C) permit anyone other than an indi-
13 vidual authorized by the Director to examine
14 any individual report provided under subsection
15 (c).

16 “(2) PROHIBITION ON REQUESTS FOR CERTAIN
17 DATA.—

18 “(A) GOVERNMENT AGENCIES.—No de-
19 partment, bureau, agency, officer, or employee
20 of the United States (except the Director in
21 carrying out this section) may require, for any
22 reason, a copy of any report that has been filed
23 under subsection (c) with the Bureau or re-
24 tained by an individual respondent.



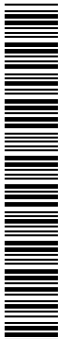
1 “(B) COURTS.—Any copy of a report de-
2 scribed in subparagraph (A) that has been re-
3 tained by an individual respondent or filed with
4 the Bureau or any of its employees, contractors,
5 or agents—

6 “(i) shall be immune from legal proc-
7 ess; and

8 “(ii) shall not, without the consent of
9 the individual concerned, be admitted as
10 evidence or used for any purpose in any
11 action, suit, or other judicial or adminis-
12 trative proceeding.

13 “(C) APPLICABILITY.—This paragraph
14 shall apply only to reports that permit informa-
15 tion concerning an individual or organization to
16 be reasonably inferred by direct or indirect
17 means.

18 “(3) DATA COLLECTED FOR NONSTATISTICAL
19 PURPOSES.—In a case in which the Bureau is au-
20 thorized by statute to collect data or information for
21 a nonstatistical purpose, the Director shall clearly
22 distinguish the collection of the data or information,
23 by rule and on the collection instrument, so as to in-
24 form a respondent that is requested or required to



1 supply the data or information of the nonstatistical
2 purpose.

3 “(l) TRANSPORTATION STATISTICS ANNUAL RE-
4 PORT.—The Director shall transmit to the President and
5 Congress a Transportation Statistics Annual Report which
6 shall include information on items referred to in sub-
7 section (c)(5), documentation of methods used to obtain
8 and ensure the quality of the statistics presented in the
9 report, and recommendations for improving transportation
10 statistical information.

11 “(m) PROCEEDS OF DATA PRODUCT SALES.—Not-
12 withstanding section 3302 of title 31, United States Code,
13 funds received by the Bureau from the sale of data prod-
14 ucts, for necessary expenses incurred, may be credited to
15 the Highway Trust Fund (other than the Mass Transit
16 Account) for the purpose of reimbursing the Bureau for
17 the expenses.

18 “(n) ADVISORY COUNCIL ON TRANSPORTATION STA-
19 TISTICS.—

20 “(1) ESTABLISHMENT.—The Director of the
21 Bureau of Transportation Statistics shall establish
22 an Advisory Council on Transportation Statistics.

23 “(2) FUNCTION.—It shall be the function of the
24 Advisory Council established under this subsection
25 to—



1 “(A) advise the Director of the Bureau of
2 Transportation Statistics on the quality, reli-
3 ability, consistency, objectivity, and relevance of
4 transportation statistics and analyses collected,
5 supported, or disseminated by the Bureau of
6 Transportation Statistics and the Department
7 of Transportation;

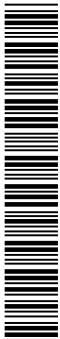
8 “(B) provide input to and review the re-
9 port to Congress under subsection (d)(4); and

10 “(C) advise the Director on methods to en-
11 courage harmonization and interoperability of
12 transportation data collected by the Bureau, the
13 operating administrations of the Department of
14 Transportation, States, local governments, met-
15 ropolitan planning organizations, and private
16 sector entities.

17 “(3) MEMBERSHIP.—The Advisory Council es-
18 tablished under this subsection shall be composed of
19 not fewer than 15 members appointed by the Direc-
20 tor, who are not officers or employees of the United
21 States, including—

22 “(A) 2 members with specific expertise in
23 economics;

24 “(B) 3 members with expertise in statis-
25 tics; and



1 “(C) additional members with expertise in
2 transportation statistics, analysis, or policy.

3 Members shall include representatives of a cross-sec-
4 tion of transportation community stakeholders.

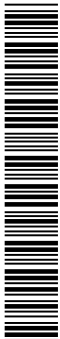
5 “(4) TERMS OF APPOINTMENT.—(A) Except as
6 provided in subparagraph (B), members shall be ap-
7 pointed to staggered terms not to exceed 3 years. A
8 member may be renominated for one additional 3-
9 year term.

10 “(B) Members serving on the Advisory Council
11 on Transportation Statistics as of the date of enact-
12 ment of the Surface Transportation Research and
13 Development Act of 2004 shall serve until the end
14 of their appointed terms.

15 “(5) APPLICABILITY OF FEDERAL ADVISORY
16 COMMITTEE ACT.—The Federal Advisory Committee
17 Act shall apply to the Advisory Council established
18 under this subsection, except that section 14 of the
19 Federal Advisory Committee Act shall not apply to
20 such Advisory Council.”.

21 **SEC. 108. STATE PLANNING AND RESEARCH.**

22 Section 505 of title 23, United States Code, is
23 amended to read as follows:



1 **“§ 505. State planning and research**

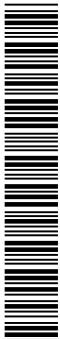
2 “(a) IN GENERAL.—Two and a half percent of the
3 sums apportioned to a State for fiscal year 2004 and each
4 fiscal year thereafter under section 104 (other than sub-
5 sections (f) and (h)) and under sections 105 and 144 shall
6 be available for expenditure by the State, in consultation
7 with the Secretary, only for the following purposes:

8 “(1) Engineering and economic surveys and in-
9 vestigations.

10 “(2) The planning of future highway programs
11 and local public transportation systems, the planning
12 of the financing of such programs and systems, in-
13 cluding metropolitan and Statewide planning under
14 sections 134 and 135, freight planning, safety plan-
15 ning, transportation systems management and oper-
16 ations planning, transportation-related land use
17 planning, and transportation-related growth manage-
18 ment activities within these planning processes, and
19 planning capacity building activities.

20 “(3) Development and implementation of infra-
21 structure management and traffic monitoring sys-
22 tems, and for asset management.

23 “(4) Studies of the economy, safety, and con-
24 venience of highway, local public transportation, bi-
25 cycle, and pedestrian systems and the desirable reg-
26 ulation and equitable taxation of their use.



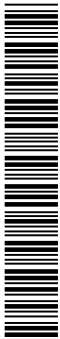
1 “(5) Research, development, and technology
2 transfer activities necessary in connection with the
3 planning, design, construction, management, mainte-
4 nance, regulation, and taxation of the use of high-
5 way, local public transportation, and intermodal
6 transportation systems.

7 “(6) Research on the effects of design stand-
8 ards on intermodal coordination, such as the high-
9 way-rail interface, and on safe pedestrian access to
10 transit on arterial roads and urban highways.

11 “(7) Study, research and development, and
12 training on the engineering standards and construc-
13 tion materials, including accreditation of inspection
14 and testing, for highway, local public transportation,
15 bicycle, pedestrian, and intermodal transportation
16 systems.

17 “(b) MINIMUM EXPENDITURES ON RESEARCH, DE-
18 VELOPMENT, AND TECHNOLOGY TRANSFER ACTIVI-
19 TIES.—

20 “(1) IN GENERAL.—Subject to paragraph (2),
21 not less than 25 percent of the funds appropriated
22 pursuant to subsection (a) to a State for a fiscal
23 year shall be expended by the State for research, de-
24 velopment, and technology transfer activities de-
25 scribed in subsection (a), relating to highway, public



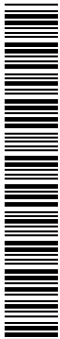
1 transportation, bicycle, pedestrian, and intermodal
2 transportation systems.

3 “(2) WAIVERS.—The Secretary may waive the
4 application of paragraph (1) with respect to a State
5 for a fiscal year if the State certifies to the Sec-
6 retary for the fiscal year that the funds described in
7 paragraph (1) are not needed for research, develop-
8 ment, and technology transfer and the Secretary ac-
9 cepts such certification.

10 “(3) NONAPPLICABILITY OF ASSESSMENT.—
11 Funds expended under paragraph (1) shall not be
12 considered to be part of the extramural budget of
13 the agency for the purpose of section 9 of the Small
14 Business Act (15 U.S.C. 638).

15 “(c) MINIMUM EXPENDITURES FOR IMPROVING THE
16 QUALITY OF COLLECTION AND REPORTING OF STRA-
17 TEGIC SURFACE TRANSPORTATION DATA.—

18 “(1) IN GENERAL.—Subject to paragraph (2),
19 not less than 10 percent of the funds appropriated
20 pursuant to subsection (a) for a fiscal year to a
21 State shall be expended by the State to improve the
22 collection and reporting of strategic surface trans-
23 portation data to provide critical information about
24 the extent, condition, use, performance, and financ-
25 ing of the Nation’s surface transportation system



1 (including intermodal connectors) for passenger and
2 freight movement.

3 “(2) WAIVERS.—The Secretary may waive the
4 application of paragraph (1) with respect to a State
5 for a fiscal year if the State certifies to the Sec-
6 retary for the fiscal year that the State is collecting
7 and reporting strategic data consistent with quality
8 assurance guidelines developed cooperatively with the
9 States and the Secretary approves such certification.

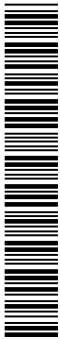
10 “(d) FEDERAL SHARE.—The Federal share of the
11 cost of a project carried out using funds subject to sub-
12 section (a) shall be matched in accordance with section
13 120(b) unless the Secretary determines that the interests
14 of the surface transportation program would be best
15 served without such matching.”.

16 **SEC. 109. FUTURE STRATEGIC HIGHWAY RESEARCH PRO-**
17 **GRAM.**

18 (a) AMENDMENT.—Chapter 5 of title 23, United
19 States Code, is amended by adding at the end the fol-
20 lowing new section:

21 **“§ 509. Future Strategic Highway Research Program**

22 “(a) ESTABLISHMENT.—The Secretary, in consulta-
23 tion with the American Association of State Highway and
24 Transportation Officials, shall establish and support a



1 grant program to be known as the Future Strategic High-
2 way Research Program.

3 “(b) PROGRAM.—The program established under this
4 section shall implement the Transportation Research
5 Board Special Report 260, entitled ‘Strategic Highway
6 Research: Saving Lives, Reducing Congestion, Improving
7 Quality of Life’, which included the following research
8 areas:

9 “(1) Accelerating the renewal of America’s
10 highways.

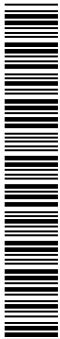
11 “(2) Making a significant improvement in high-
12 way safety.

13 “(3) Providing a highway system with reliable
14 travel times.

15 “(4) Providing highway capacity in support of
16 the Nation’s economic, environmental, multi-modal
17 transportation, and social goals.

18 “(c) ADMINISTRATION.—The Secretary shall enter
19 into an arrangement with the National Research Council
20 to administer the program established under subsection
21 (a).

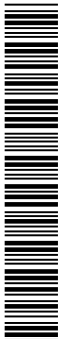
22 “(d) PERIOD OF AVAILABILITY.—Funds set aside to
23 carry out this section shall remain available for the fiscal
24 year for which such funds are made available and the
25 three succeeding fiscal years.



1 “(e) AUTHORIZATION OF APPROPRIATIONS.—There
2 are authorized to be appropriated to the Secretary of
3 Transportation from the Highway Trust Fund, for each
4 of fiscal years 2004 through 2009, \$75,000,000 to carry
5 out this section.

6 “(f) PROGRAM ADMINISTRATION.—In carrying out
7 the program under this section, the Secretary, through the
8 agreement with the National Research Council, shall en-
9 sure that the selection of awards shall be based on open
10 competition and peer review, and that a balanced group
11 of stakeholders is represented on all committees and pan-
12 els established to implement the program. Proposals that
13 involve partnerships and include significant matching
14 funds shall be encouraged, although no matching funds
15 are required.

16 “(g) PROGRAMMATIC EVALUATIONS.—Within 3 years
17 after the first research and development project grants,
18 cooperative agreements, or contracts are awarded under
19 this section, the Comptroller General shall review the pro-
20 gram under this section, and recommend improvements.
21 The review shall assess the degree to which projects fund-
22 ed under this section have addressed the research and de-
23 velopment topics identified in the Transportation Research
24 Board Special Report 260, including identifying those top-
25 ics which have not yet been addressed.



1 “(h) ANNUAL PROGRESS AND PERFORMANCE RE-
2 PORT.—The National Research Council shall produce an
3 annual progress and performance report for the program
4 under this section. The report shall summarize the status,
5 funding, and sponsors of all funded projects by the re-
6 search and development areas specified in subsection (b).
7 The report shall be submitted to the Secretary, to the
8 Committee on Transportation and Infrastructure and the
9 Committee on Science of the House of Representatives,
10 and to the Committee on Environment and Public Works
11 of the Senate.”.

12 (b) CONFORMING AMENDMENT.—The analysis of
13 chapter 5 of title 23, United States Code, is amended by
14 adding at the end the following new item:

“509. Future strategic highway research program.”.

15 **SEC. 110. UNIVERSITY TRANSPORTATION RESEARCH.**

16 Section 5505 of title 49, United States Code, is
17 amended to read as follows:

18 **“§ 5505. University transportation research**

19 “(a) REGIONAL CENTERS.—The Secretary of Trans-
20 portation shall make grants to nonprofit institutions of
21 higher learning to establish and operate 1 university
22 transportation center in each of the 10 United States Gov-
23 ernment regions that comprise the Standard Federal Re-
24 gional Boundary System.



1 “(b) OTHER CENTERS.—The Secretary shall make
2 16 grants to nonprofit institutions of higher learning, in
3 addition to grants made under subsection (a), to establish
4 and operate university transportation centers.

5 “(c) ROLE OF CENTERS.—The role of each center
6 shall be to address transportation management and re-
7 search and development matters, with special attention to
8 increasing the number of highly skilled individuals enter-
9 ing the field of transportation.

10 “(d) SELECTION OF GRANT RECIPIENTS.—

11 “(1) APPLICATIONS.—In order to be eligible to
12 receive a grant under this section, a nonprofit insti-
13 tution of higher learning shall submit to the Sec-
14 retary an application that is in such form and con-
15 tains such information as the Secretary may require.

16 “(2) SELECTION CRITERIA.—Except as other-
17 wise provided by this section, the Secretary shall se-
18 lect each recipient of a grant under this section
19 through an open competition, peer-reviewed process
20 on the basis of the following:

21 “(A) The capability of the recipient to pro-
22 vide leadership in making national and regional
23 contributions to the solution of immediate and
24 long-range transportation problems.



1 “(B) The recipient’s establishment of a
2 surface transportation program by the date of
3 the award, which encompasses several modes of
4 transportation.

5 “(C) The recipient’s demonstrated ability
6 to disseminate results of transportation re-
7 search and education programs through a state-
8 wide or regionwide continuing education pro-
9 gram.

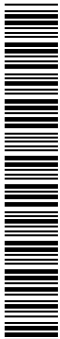
10 “(D) The strategic plan the recipient pro-
11 poses to carry out under the grant.

12 “(e) OBJECTIVES.—The Secretary shall ensure that
13 each university transportation center receiving a grant
14 under this section shall conduct the following programs
15 and activities:

16 “(1) Basic and applied research and develop-
17 ment that supports the Department’s research and
18 development agenda consistent with section 508 of
19 title 23.

20 “(2) An education program that includes multi-
21 disciplinary course work, faculty and student partici-
22 pation in research and development, and an oppor-
23 tunity for practical experience.

24 “(3) An ongoing program of technology transfer
25 that makes research and development results avail-



1 able to potential users in a form that can be imple-
2 mented, utilized, or otherwise applied.

3 “(f) MAINTENANCE OF EFFORT.—To be eligible to
4 receive a grant under this section, an applicant shall—

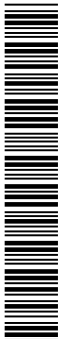
5 “(1) enter into an agreement with the Secretary
6 to ensure that the applicant will maintain total ex-
7 penditures from all other sources to establish and
8 operate a university transportation center and re-
9 lated educational and research and development ac-
10 tivities at a level that is at least equal to the average
11 level of those expenditures during the 2 fiscal years
12 before the date on which the grant is provided;

13 “(2) submit to the Secretary an annual report
14 on the projects and activities of the university trans-
15 portation center for which funds are made available
16 for the fiscal year covered by the report, a descrip-
17 tion of—

18 “(A) the educational activities carried out
19 by the center (including a detailed summary of
20 the budget for those educational activities);

21 “(B) each research and development
22 project carried out by the center, including—

23 “(i) the identity of the principal inves-
24 tigator working on a research and develop-
25 ment project; and



1 “(ii) the overall funding amount for
2 each research and development project (in-
3 cluding the amounts expended for the
4 project as of the date of the report); and

5 “(C) overall technology transfer and imple-
6 mentation efforts of the center; and

7 “(3) make use of National Research Council,
8 Transportation Research Board, and Transportation
9 Research Information Services online databases
10 for—

11 “(A) program development and strategic
12 planning;

13 “(B) reporting of activities funded under
14 this section; and

15 “(C) input and dissemination of results
16 and reports from completed research and devel-
17 opment.

18 “(g) FEDERAL SHARE.—The Federal share of the
19 costs of activities carried out using a grant made under
20 subsection (a) is 80 percent of costs, and under subsection
21 (b) is 50 percent of costs. The non-Federal share may in-
22 clude funds provided to a recipient under section 503,
23 504(b), or 505 of title 23, United States Code.

24 “(h) PROGRAM COORDINATION.—



1 “(1) COORDINATION.—The Secretary shall co-
2 ordinate the research and development, education,
3 training, and technology transfer activities that
4 grant recipients carry out under this section.

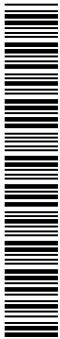
5 “(2) ANNUAL REVIEW AND EVALUATION.—At
6 least annually and consistent with the plan devel-
7 oped by the recipient under subsection (f)(2), the
8 Secretary shall review and evaluate programs the
9 grant recipients carry out.

10 “(3) FUNDING LIMITATION.—The Secretary
11 may use not more than 1 percent of amounts made
12 available from Government sources to carry out this
13 subsection.

14 “(i) LIMITATION ON AVAILABILITY OF FUNDS.—
15 Funds made available to carry out this program shall re-
16 main available for obligation for a period of 2 years after
17 the last day of the fiscal year for which such funds are
18 authorized.

19 “(j) TRANSPORTATION EDUCATION DEVELOPMENT
20 PILOT PROGRAM.—

21 “(1) ESTABLISHMENT.—The Secretary shall es-
22 tablish a program to make grants to institutions of
23 higher education that in partnership with industry
24 or State Departments of Transportation will de-
25 velop, test, and revise new curricula and education



1 programs to train individuals at all levels of the
2 transportation workforce.

3 “(2) SELECTION OF GRANT RECIPIENTS.—In
4 selecting applications for awards under this sub-
5 section, the Secretary shall consider—

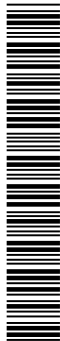
6 “(A) the degree to which the new curricula
7 or education program meets the specific needs
8 of a segment of the transportation industry,
9 States, or regions;

10 “(B) providing for practical experience and
11 on-the-job training;

12 “(C) proposals oriented toward practi-
13 tioners in the field rather than the support and
14 growth of the research community;

15 “(D) the degree to which the new curricula
16 or program will provide training in areas other
17 than engineering, such as business administra-
18 tion, economics, information technology, envi-
19 ronmental science, and law;

20 “(E) programs or curricula in nontradi-
21 tional departments which train professionals for
22 work in the transportation field, such as mate-
23 rials, information technology, environmental
24 science, urban planning, and industrial tech-
25 nology; and



1 “(F) industry or a State’s Department of
2 Transportation commitment to the program.

3 “(3) AUTHORIZATION OF APPROPRIATIONS.—
4 From amounts authorized under section 101(b)(4)
5 of the Surface Transportation Research and Devel-
6 opment Act of 2004 for carrying out this section, for
7 each of fiscal years 2004, 2005, 2006, 2007, 2008,
8 and 2009, there shall be available for carrying out
9 this subsection \$4,500,000.

10 “(4) LIMITATIONS.—No individual grant under
11 this subsection shall exceed \$750,000 per year. After
12 a recipient has received 3 years of Federal funding
13 under this subsection, Federal funding may equal no
14 more than 75 percent of a grantee’s program costs.

15 “(k) NATIONAL TRANSPORTATION SECURITY CEN-
16 TERS.—

17 “(1) ESTABLISHMENT.—The Secretary shall es-
18 tablish not more than 4 National Transportation Se-
19 curity Centers at institutions of higher education to
20 conduct research, education, and professional train-
21 ing on all aspects of surface transportation security,
22 with emphasis on utilization of intelligent transpor-
23 tation systems, technologies, and architectures.



1 “(2) SELECTION CRITERIA.—The Secretary
2 shall make grants using a competitive peer-reviewed
3 procedure that gives priority to—

4 “(A) institutions with a commitment to
5 transportation security issues;

6 “(B) proposals that include partnerships
7 with other institutions of higher education, Fed-
8 eral laboratories, or other nonprofit labora-
9 tories;

10 “(C) proposals to conduct both practical
11 and theoretical research and technical systems
12 analysis; and

13 “(D) proposals to develop professional
14 training programs.”.

15 **SEC. 111. INTELLIGENT TRANSPORTATION SYSTEMS.**

16 (a) AMENDMENT.—Subtitle C of title V of the Trans-
17 portation Equity Act for the 21st Century is amended to
18 read as follows:

19 **“Subtitle C—Intelligent**
20 **Transportation Systems**

21 **“SEC. 5201. SHORT TITLE.**

22 “‘This subtitle may be cited as the ‘Intelligent Trans-
23 portation Systems Act of 2004’.



1 **“SEC. 5202. GOALS AND PURPOSES.**

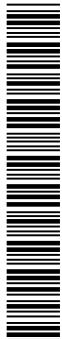
2 “(a) GOALS.—The goals of the intelligent transpor-
3 tation system program include—

4 “(1) enhancement of surface transportation ef-
5 ficiency and facilitation of intermodalism and inter-
6 national trade to enable existing facilities to meet a
7 significant portion of future transportation needs,
8 including public access to employment, goods, and
9 services, and to reduce regulatory, financial, and
10 other transaction costs to public agencies and sys-
11 tem users;

12 “(2) achievement of national transportation
13 safety goals, including the enhancement of safe oper-
14 ation of motor vehicles and nonmotorized vehicles,
15 with particular emphasis on decreasing the number
16 and severity of collisions;

17 “(3) protection and enhancement of the natural
18 environment and communities affected by surface
19 transportation, with particular emphasis on assisting
20 State and local governments to achieve national en-
21 vironmental goals;

22 “(4) accommodation of the needs of all users of
23 surface transportation systems, including operators
24 of commercial vehicles, passenger vehicles, motor-
25 cycles, and bicycles, and including pedestrians and
26 individuals with disabilities; and



1 “(5) improvement of the Nation’s ability to re-
2 spond to security related or other man-made emer-
3 gencies and natural disasters, and enhancement of
4 national defense mobility.

5 “(b) PURPOSES.—The Secretary shall implement ac-
6 tivities under the intelligent transportation system pro-
7 gram to, at a minimum—

8 “(1) develop and test emerging technologies to
9 meet the goals described in subsection (a);

10 “(2) expedite deployment and ensure integra-
11 tion and interoperability of proven intelligent trans-
12 portation systems;

13 “(3) analyze the likelihood of utilization of in-
14 telligent transportation system technologies by the
15 intended user community;

16 “(4) ensure that Federal, State, and local
17 transportation officials have adequate knowledge of
18 intelligent transportation systems for full consider-
19 ation in the transportation planning process;

20 “(5) improve regional cooperation and oper-
21 ations planning for effective intelligent transpor-
22 tation system deployment;

23 “(6) promote the innovative use of private re-
24 sources;



1 “(7) develop a workforce capable of developing,
2 operating, and maintaining intelligent transportation
3 systems; and

4 “(8) evaluate costs and benefits of intelligent
5 transportation systems projects.

6 **“SEC. 5203. GENERAL AUTHORITIES AND REQUIREMENTS.**

7 “(a) SCOPE.—Subject to the provisions of this sub-
8 title, the Secretary shall conduct an ongoing intelligent
9 transportation system program to research, develop, and
10 operationally test intelligent transportation systems and
11 advance nationwide deployment of proven systems through
12 research on barriers to deployment as a component of the
13 surface transportation systems of the United States.

14 “(b) POLICY.—Intelligent transportation system re-
15 search, development, operational tests, and deployment
16 projects funded pursuant to this subtitle shall encourage
17 and not displace public-private partnerships or private sec-
18 tor investment in such research and development tests and
19 projects.

20 “(c) COOPERATION WITH GOVERNMENTAL, PRI-
21 VATE, AND EDUCATIONAL ENTITIES.—The Secretary
22 shall carry out the intelligent transportation system pro-
23 gram in cooperation with State and local governments and
24 other public entities, the United States private sector, the
25 Federal laboratories, and colleges and universities, includ-



1 ing historically black colleges and universities and other
2 minority institutions of higher education.

3 “(d) CONSULTATION WITH FEDERAL OFFICIALS.—

4 In carrying out the intelligent transportation system pro-
5 gram, the Secretary, as appropriate, may consult with the
6 Secretary of Commerce, the Secretary of the Treasury, the
7 Secretary of Homeland Security, the Administrator of the
8 Environmental Protection Agency, the Director of the Na-
9 tional Science Foundation, and the heads of other Federal
10 departments and agencies.

11 “(e) TECHNICAL ASSISTANCE, TRAINING, AND IN-

12 FORMATION.—The Secretary shall provide technical as-
13 sistance, training, and information to State and local gov-
14 ernments seeking to implement, operate, maintain, or
15 evaluate intelligent transportation system technologies and
16 services.

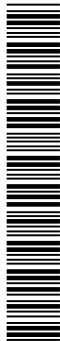
17 “(f) TRANSPORTATION PLANNING.—The Secretary

18 may provide funding to support adequate consideration of
19 transportation system management and operations within
20 metropolitan and statewide transportation planning proc-
21 esses.

22 “(g) INFORMATION CLEARINGHOUSE.—

23 “(1) IN GENERAL.—The Secretary shall—

24 “(A) maintain a repository for technical
25 and safety data collected as a result of federally



1 sponsored projects carried out under this sub-
2 title; and

3 “(B) make that information (except for
4 proprietary information and data) readily avail-
5 able to all users of the repository.

6 “(2) AGREEMENT.—

7 “(A) IN GENERAL.—The Secretary may
8 enter into an agreement with a third party for
9 the maintenance of the repository for technical
10 and safety data under paragraph (1)(A).

11 “(B) FEDERAL FINANCIAL ASSISTANCE.—
12 If the Secretary delegates responsibility under
13 subparagraph (A), the entity to which the re-
14 sponsibility is delegated shall be eligible for
15 Federal financial assistance under this section.

16 “(h) ADVISORY COMMITTEE.—

17 “(1) IN GENERAL.—The Secretary shall estab-
18 lish an Advisory Committee to advise the Secretary
19 on carrying out this subtitle.

20 “(2) MEMBERSHIP.—The Advisory Committee
21 shall have no more than 20 members, be balanced
22 between metropolitan and rural interests, and in-
23 clude, at a minimum—

24 “(A) a representative from a State high-
25 way department;



1 “(B) a representative from a local highway
2 department who is not from a metropolitan
3 planning organization;

4 “(C) a representative from a State, local,
5 or regional transit agency;

6 “(D) a representative from a metropolitan
7 planning organization;

8 “(E) a private sector user of intelligent
9 transportation system technologies;

10 “(F) an academic researcher with expertise
11 in computer science or another information
12 science field related to intelligent transportation
13 systems, and who is not an expert on transpor-
14 tation issues;

15 “(G) an academic researcher who is a civil
16 engineer;

17 “(H) an academic researcher who is a so-
18 cial scientist with expertise in transportation
19 issues;

20 “(I) a representative from a not-for-profit
21 group representing the intelligent transpor-
22 tation system industry;

23 “(J) a representative from a public interest
24 group concerned with safety;



1 “(K) a representative from a public inter-
2 est group concerned with the impact of the
3 transportation system on land use and residen-
4 tial patterns; and

5 “(L) members with expertise in planning,
6 safety, and operations.

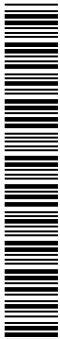
7 “(3) DUTIES.—The Advisory Committee shall,
8 at a minimum, perform the following duties:

9 “(A) Provide input into the development of
10 the Intelligent Transportation System aspects
11 of the strategic plan under section 508 of title
12 23, United States Code.

13 “(B) Review, at least annually, areas of in-
14 telligent transportation systems research being
15 considered for funding by the Department, to
16 determine—

17 “(i) whether these activities are likely
18 to advance either the state-of-the-practice
19 or state-of-the-art in intelligent transpor-
20 tation systems;

21 “(ii) whether the intelligent transpor-
22 tation system technologies are likely to be
23 deployed by users, and, if not, to determine
24 the barriers to deployment; and



1 “(iii) the appropriate roles for govern-
2 ment and the private sector in investing in
3 the research and technologies being consid-
4 ered.

5 “(4) REPORT.—Not later than February 1 of
6 each year after the date of enactment of the Surface
7 Transportation Research and Development Act of
8 2004, the Secretary shall transmit to the Committee
9 on Science and the Committee on Transportation
10 and Infrastructure of the House of Representatives,
11 and to the Committee on Environment and Public
12 Works of the Senate, a report including—

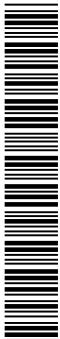
13 “(A) all recommendations made by the Ad-
14 visory Committee during the preceding calendar
15 year;

16 “(B) an explanation of how the Secretary
17 has implemented those recommendations; and

18 “(C) for recommendations not imple-
19 mented, the reasons for rejecting the rec-
20 ommendations.

21 “(5) APPLICABILITY OF FEDERAL ADVISORY
22 COMMITTEE ACT.—The Advisory Committee shall be
23 subject to the Federal Advisory Committee Act (5
24 U.S.C. App.).

25 “(i) EVALUATIONS.—



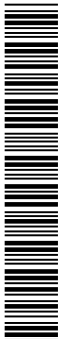
1 “(1) GUIDELINES AND REQUIREMENTS.—

2 “(A) IN GENERAL.—The Secretary shall
3 issue guidelines and requirements for the eval-
4 uation of operational tests and model deploy-
5 ment projects carried out under this subtitle.

6 “(B) CONTENT.—Such evaluations shall
7 include specific, quantitative measures to deter-
8 mine whether a technology is meeting its in-
9 tended goal. To the maximum extent prac-
10 ticable, these measures shall evaluate the out-
11 come of the technology (such as accidents
12 avoided or decreased travel times or travel time
13 variability).

14 “(C) OBJECTIVITY AND INDEPENDENCE.—
15 The guidelines and requirements issued under
16 subparagraph (A) shall include provisions to en-
17 sure the objectivity and independence of the
18 evaluator so as to avoid any real or apparent
19 conflict of interest or potential influence on the
20 outcome by parties to any such test or deploy-
21 ment project or by any other formal evaluation
22 carried out under this subtitle.

23 “(D) FUNDING.—The guidelines and re-
24 quirements issued under subparagraph (A) shall
25 establish evaluation funding levels, based on the



1 size and scope of each test or project, that en-
2 sure adequate evaluation of the results of the
3 test or project.

4 “(E) DISSEMINATION.—The Secretary
5 shall make readily available through the Inter-
6 net all information collected through evalua-
7 tions carried out under this subsection.

8 “(2) SPECIAL RULE.—Any survey, question-
9 naire, or interview that the Secretary considers nec-
10 essary to carry out the evaluation of any test, de-
11 ployment project, or program assessment activity
12 under this subtitle shall not be subject to chapter 35
13 of title 44, United States Code.

14 **“SEC. 5204. USING INFORMATION FROM INTELLIGENT**
15 **TRANSPORTATION SYSTEMS.**

16 “(a) REPORT.—The Secretary shall prepare a report
17 assessing the value of current and anticipated data col-
18 lected from intelligent transportation system technologies
19 to determine whether and how that data should be used
20 for real-time traffic management, planning, performance
21 monitoring, program assessment, and policy applications.

22 “(b) ASSESSMENT.—In preparing the report under
23 subsection (a), the Secretary should assess—

24 “(1) the extent to which data should be central-
25 ized nationally in support of national planning and



1 goals, what information should be aggregated re-
2 gionally, and what information should be kept lo-
3 cally;

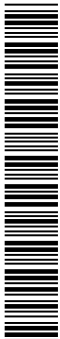
4 “(2) the need for data standards;

5 “(3) public and private data sources other than
6 intelligent transportation system data sources (such
7 as roadway characteristics inventories and incident
8 information) that, combined with intelligent trans-
9 portation system data, would enhance the utility of
10 intelligent transportation system data to decision-
11 makers, and how these data sources can be merged;
12 and

13 “(4) how to make data accessible to users.

14 “(c) CONSULTATION.—In developing the strategy
15 under this section, the Secretary shall consult with the Bu-
16 reau of Transportation Statistics and the advisory com-
17 mittee established under section 5203(h).

18 “(d) REPORT TO CONGRESS.—Not later than 2 years
19 after the date of the enactment of this subsection, the Sec-
20 retary shall transmit to the Committee on Science and the
21 Committee on Transportation and Infrastructure of the
22 House of Representatives, and to the Committee on Envi-
23 ronment and Public Works of the Senate, the report devel-
24 oped under this section.



1 **“SEC. 5205. NATIONAL ARCHITECTURE AND STANDARDS.**

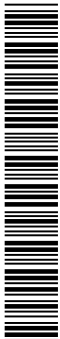
2 “(a) IN GENERAL.—

3 “(1) DEVELOPMENT, IMPLEMENTATION, AND
4 MAINTENANCE.—Consistent with section 12(d) of
5 the National Technology Transfer and Advancement
6 Act of 1995 (15 U.S.C. 272 note; 110 Stat. 783),
7 the Secretary shall develop, implement, and maintain
8 a national architecture and supporting standards
9 and protocols to promote the widespread use and
10 evaluation of intelligent transportation system tech-
11 nology as a component of the surface transportation
12 systems of the United States.

13 “(2) GOAL.—The goal of the national architec-
14 ture and standards shall be to ensure, whenever it
15 is appropriate, interoperability among, and efficiency
16 of, intelligent transportation system technologies im-
17 plemented throughout the United States.

18 “(3) USE OF STANDARDS DEVELOPMENT ORGA-
19 NIZATIONS.—In carrying out this section, the Sec-
20 retary may use the services of such standards devel-
21 opment organizations as the Secretary determines to
22 be appropriate.

23 “(4) STANDARD VALIDATION.—The Secretary
24 shall ensure that new standards promulgated for in-
25 telligent transportation system technologies that are
26 funded by the Department are tested and validated,



1 whenever it is appropriate, and shall ensure that the
2 results of such testing and validation are made pub-
3 licly available.

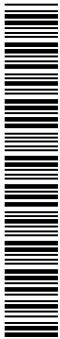
4 “(b) PROVISIONAL STANDARDS.—

5 “(1) IN GENERAL.—If the Secretary finds that
6 the development or balloting of an intelligent trans-
7 portation system standard jeopardizes the timely
8 achievement of the objectives identified in subsection
9 (a)(1) and (2), the Secretary may establish a provi-
10 sional standard after consultation with affected par-
11 ties, and using, to the extent practicable, the work
12 product of appropriate standards development orga-
13 nizations.

14 “(2) PERIOD OF EFFECTIVENESS.—A provi-
15 sional standard established under paragraph (1)
16 shall be published in the Federal Register and re-
17 main in effect until the appropriate standards devel-
18 opment organization adopts and publishes a stand-
19 ard.

20 “(c) CONFORMITY WITH NATIONAL ARCHITEC-
21 TURE.—

22 “(1) IN GENERAL.—Except as provided in para-
23 graphs (2) and (3), the Secretary shall ensure that
24 intelligent transportation system projects carried out
25 using funds made available from the Highway Trust



1 Fund, including funds made available to deploy in-
2 telligent transportation system technologies, conform
3 to the national architecture, applicable standards or
4 provisional standards, and protocols developed under
5 subsection (a).

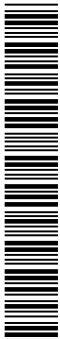
6 “(2) SECRETARY’S DISCRETION.—The Sec-
7 retary may authorize exceptions to paragraph (1)
8 for—

9 “(A) projects designed to achieve specific
10 research and development objectives outlined in
11 the National ITS Program Plan or the Surface
12 Transportation Research and Development
13 Strategic Plan developed under section 508 of
14 title 23, United States Code; or

15 “(B) the upgrade or expansion of an intel-
16 ligent transportation system in existence on the
17 date of enactment of the Transportation Equity
18 Act for the 21st Century, if the Secretary de-
19 termines that the upgrade or expansion—

20 “(i) would not adversely affect the
21 goals or purposes of this subtitle;

22 “(ii) is carried out before the end of
23 the useful life of such system; and



1 “(iii) is cost-effective as compared to
2 alternatives that would meet the con-
3 formity requirement of paragraph (1).

4 “(3) EXCEPTIONS.—Paragraph (1) shall not
5 apply to funds used for operation or maintenance of
6 an intelligent transportation system in existence on
7 the date of enactment of the Transportation Equity
8 Act for the 21st Century.

9 **“SEC. 5206. RESEARCH AND DEVELOPMENT.**

10 “(a) IN GENERAL.—The Secretary shall carry out a
11 comprehensive program of research, development, and
12 operational tests of intelligent vehicles and intelligent in-
13 frastructure systems, as well as research into barriers to
14 their deployment, and other similar activities that are nec-
15 essary to carry out this subtitle.

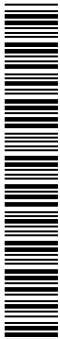
16 “(b) PRIORITY AREAS.—Under the program, the Sec-
17 retary shall give higher priority to funding projects that—

18 “(1) are aimed at reducing congestion and im-
19 proving mobility and efficiency;

20 “(2) are aimed at improving safety;

21 “(3) are aimed at improving security by focus-
22 ing on responding to security-related emergencies,
23 and preventing such emergencies;

24 “(4) incorporate human factors research, in-
25 cluding the science of the driving process;



1 “(5) develop methods to address nontechnical
2 barriers to the deployment of intelligent transpor-
3 tation system technologies, and the best ways to de-
4 velop partnerships to successfully deploy intelligent
5 transportation system technologies;

6 “(6) facilitate the integration of intelligent in-
7 frastructure, vehicle, and control technologies;

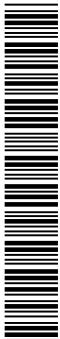
8 “(7) incorporate research on the impact of envi-
9 ronmental, weather, and natural conditions on intel-
10 ligent transportation systems, including the effects
11 of cold climates;

12 “(8) utilize interdisciplinary approaches to de-
13 velop traffic management strategies and tools to ad-
14 dress multiple impacts of congestion concurrently;

15 “(9) are aimed at improving the efficiency of
16 goods movement, such as through real-time tracking
17 and management; or

18 “(10) facilitate high-performance transportation
19 systems, through methods such as congestion pric-
20 ing, real-time facility management, rapid emergency
21 response, and just-in-time transit.

22 “(c) OPERATIONAL TESTS.—Operational tests shall
23 be used to evaluate promising technologies that have not
24 yet been demonstrated. Operational tests conducted under
25 this section shall be designed for the collection of data to



1 permit objective evaluation of the results of the tests, deri-
2 vation of cost-benefit information that is useful to others
3 contemplating deployment of similar systems, and develop-
4 ment and implementation of standards.

5 “(d) FEDERAL SHARE.—The Federal share of the
6 cost of operational tests and demonstrations under sub-
7 section (a) shall not exceed 80 percent.

8 **“SEC. 5207. USE OF FUNDS.**

9 “(a) CONGESTION REDUCTION.—At least $\frac{1}{3}$ of funds
10 made available under section 5206 for intelligent transpor-
11 tation systems research and development shall be used to
12 research, develop, and operationally test technologies
13 whose primary purpose is to reduce congestion.

14 “(b) OUTREACH AND PUBLIC RELATIONS LIMITA-
15 TION.—

16 “(1) IN GENERAL.—For each fiscal year, not
17 more than \$5,000,000 of the funds made available
18 to carry out this subtitle shall be used for intelligent
19 transportation system outreach, public relations, dis-
20 plays, scholarships, tours, and brochures.

21 “(2) APPLICABILITY.—Paragraph (1) shall not
22 apply to intelligent transportation system training or
23 the publication or distribution of research findings,
24 technical guidance, or similar documents.



1 “(c) INFRASTRUCTURE DEVELOPMENT.—Funds
2 made available to carry out this subtitle for operational
3 tests—

4 “(1) shall be used primarily for the development
5 of intelligent transportation system infrastructure;
6 and

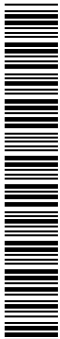
7 “(2) to the maximum extent practicable, shall
8 not be used for the construction of physical highway
9 and transit infrastructure unless the construction is
10 incidental and critically necessary to the implemen-
11 tation of an intelligent transportation system
12 project.

13 **“SEC. 5208. DEFINITIONS.**

14 “‘In this subtitle, the following definitions apply:

15 “(1) INTELLIGENT TRANSPORTATION INFRA-
16 STRUCTURE.—The term ‘intelligent transportation
17 infrastructure’ means fully integrated public sector
18 intelligent transportation system components, as de-
19 fined by the Secretary.

20 “(2) INTELLIGENT TRANSPORTATION SYS-
21 TEM.—The term ‘intelligent transportation system’
22 means electronics, communications, or information
23 processing used singly or in combination to improve
24 the efficiency or safety of a surface transportation
25 system.



1 “(3) NATIONAL ARCHITECTURE.—The term
2 ‘national architecture’ means the common frame-
3 work for interoperability adopted by the Secretary
4 that defines—

5 “(A) the functions associated with intel-
6 ligent transportation system user services;

7 “(B) the physical entities or subsystems
8 within which the functions reside;

9 “(C) the data interfaces and information
10 flows between physical subsystems; and

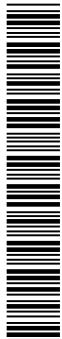
11 “(D) the communications requirements as-
12 sociated with the information flows.

13 “(4) STANDARD.—The term ‘standard’ means a
14 document that—

15 “(A) contains technical specifications or
16 other precise criteria for intelligent transpor-
17 tation systems that are to be used consistently
18 as rules, guidelines, or definitions of character-
19 istics so as to ensure that materials, products,
20 processes, and services are fit for their pur-
21 poses; and

22 “(B) may support the national architecture
23 and promote—

24 “(i) the widespread use and adoption
25 of intelligent transportation system tech-



1 nology as a component of the surface
2 transportation systems of the United
3 States; and

4 “(ii) interoperability among intelligent
5 transportation system technologies imple-
6 mented throughout the States.

7 “(5) STATE.—The term ‘State’ has the mean-
8 ing given the term under section 101 of title 23,
9 United States Code.”.

10 (b) TABLE OF CONTENTS AMENDMENT.—The items
11 relating to subtitle C of title V in the table of contents
12 of the Transportation Equity Act for the 21st Century are
13 amended to read as follows:

“Subtitle C—Intelligent Transportation Systems

“5201. Short title.

“5202. Goals and purposes.

“5203. General authorities and requirements.

“5204. Using information from intelligent transportation systems.

“5205. National architecture and standards.

“5206. Research and development.

“5207. Use of funds.

“5208. Definitions.”.

14 (c) REPEAL.—The Intermodal Surface Transpor-
15 tation Efficiency Act of 1991 is amended by striking part
16 B of title VI (23 U.S.C. 307 note; 105 Stat. 2189).

17 **TITLE II—MISCELLANEOUS**

18 **SEC. 201. AUTHORIZATION OF APPROPRIATIONS.**

19 (a) TRANSIT RESEARCH AND DEVELOPMENT.—
20 There are authorized to be appropriated from the High-



1 way Trust Fund to the Secretary of Transportation to
2 carry out sections 5312, 5313, 5314, 5315, and 5322 of
3 title 49, United States Code, and section 202 of this Act,
4 relating to research and development, such sums as may
5 be necessary for each of the fiscal years 2004 through
6 2009.

7 (b) HIGHWAY SAFETY RESEARCH AND DEVELOP-
8 MENT.—There are authorized to be appropriated from the
9 Highway Trust Fund to the Secretary of Transportation
10 to carry out section 403 of title 23, United States Code,
11 relating to research and development, such sums as may
12 be necessary for each of the fiscal years 2004 through
13 2009.

14 (c) MOTOR CARRIER RESEARCH AND DEVELOP-
15 MENT.—There are authorized to be appropriated from the
16 Highway Trust Fund to the Secretary of Transportation
17 to carry out section 31108 of title 49, United States Code,
18 relating to research and development, such sums as may
19 be necessary for each of the fiscal years 2004 through
20 2009.



1 **SEC. 202. INNOVATIVE PRACTICES AND TECHNOLOGIES**
2 **DEMONSTRATION AND DEPLOYMENT PRO-**
3 **GRAM.**

4 (a) ESTABLISHMENT.—The Secretary of Transpor-
5 tation shall establish an Innovative Practices and Tech-
6 nologies Demonstration and Deployment Program.

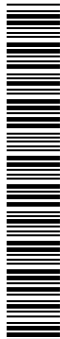
7 (b) PROGRAM GOALS.—The goals of the program are
8 to—

9 (1) demonstrate promising new transit practices
10 and technologies, including new business models for
11 managing and operating transit systems, that may
12 increase ridership, increase accessibility, reduce cost,
13 improve customer satisfaction, and improve safety;

14 (2) evaluate, refine, and document the perform-
15 ance, benefits, and costs of innovative transit prac-
16 tices and technologies; and

17 (3) effectively disseminate information to accel-
18 erate deployment of innovative transit practices and
19 technologies.

20 (c) GRANTS, COOPERATIVE AGREEMENTS, AND CON-
21 TRACTS.—The Secretary may make grants to, or enter
22 into cooperative agreements or contracts with, transit
23 agencies, States, other Federal agencies, universities and
24 colleges, private sector entities, and nonprofit organiza-
25 tions to pay the Federal share of the cost of demonstration



1 and deployment projects concerning innovative practices
2 and technologies.

3 (d) APPLICATIONS.—To receive a grant, cooperative
4 agreement, or contract under this section, an entity de-
5 scribed in subsection (c) shall submit an application to the
6 Secretary. The application shall be in such form and con-
7 tain such information as the Secretary may require. The
8 Secretary shall select and approve the applications
9 through an open competition based on the following cri-
10 teria:

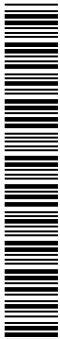
11 (1) Whether the project meets the goals of the
12 program.

13 (2) Peer review of the proposal.

14 (3) The likelihood that the project will result in
15 more widespread deployment of the practice or tech-
16 nology being proposed.

17 (4) Preference shall be given to an application
18 that represents a public-private partnership.

19 (e) TECHNOLOGY AND INFORMATION TRANSFER.—
20 The Secretary shall ensure that information about innova-
21 tive practices and technologies supported under this sec-
22 tion is made available to transit agencies, State and local
23 transportation departments, and other interested parties.
24 Information disseminated under this subsection shall in-



1 clude both the costs and benefits of deploying an innova-
2 tive practice or technology, and shall document—

3 (1) best practices for adopting successful prac-
4 tices or technologies; and

5 (2) the transferability of these practices and
6 technologies.

7 (f) FEDERAL SHARE.—The Federal share of the cost
8 of a project under this section shall be determined by the
9 Secretary.

10 **SEC. 203. NATIONAL TRANSIT INSTITUTE.**

11 Section 5315 is amended—

12 (1) in subsection (a)—

13 (A) by striking “public mass transpor-
14 tation” and inserting “public transportation”
15 each place it appears;

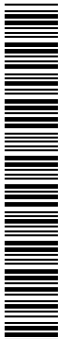
16 (B) by striking “mass” after “Govern-
17 ment-aid” and inserting “public”; and

18 (C) in paragraphs (1), (6), (7), and (10)
19 by striking “mass” each place it appears before
20 “transportation” and inserting “public”; and

21 (2) in subsection (d) by striking “mass” each
22 place it appears.

23 **SEC. 204. HUMAN RESOURCE PROGRAMS.**

24 (a) IN GENERAL.—Section 5322 is amended—



1 (1) by inserting “(a) In General.—” before the
2 beginning of the first sentence of the section; and

3 (2) by adding the following at the end:

4 “(b) GRANTS TO HIGHER LEARNING INSTITU-
5 TIONS.—

6 “(1) The Secretary (or the Secretary of Hous-
7 ing and Urban Development when required by sec-
8 tion 5334(i) of this title) may make grants to non-
9 profit institutions of higher learning—

10 “(A) to conduct competent research and
11 development and investigations into the theo-
12 retical or practical problems of urban transpor-
13 tation; and

14 “(B) to train individuals to conduct fur-
15 ther research and development or obtain em-
16 ployment in an organization that plans, builds,
17 operates, or manages an urban transportation
18 system.

19 “(2) Research and investigations under this
20 subsection include—

21 “(A) the design and use of urban public
22 transportation systems and urban roads and
23 highways;

24 “(B) the interrelationship between various
25 modes of urban and interurban transportation;



1 “(C) the role of transportation planning in
2 overall urban planning;

3 “(D) public preferences in transportation;

4 “(E) the economic allocation of transpor-
5 tation resources; and

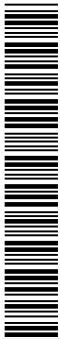
6 “(F) the legal, financial, engineering, and
7 esthetic aspects of urban transportation.

8 “(3) When making a grant under this sub-
9 section, the Secretary shall give preference to an in-
10 stitution that brings together knowledge and exper-
11 tise in the various social science and technical dis-
12 ciplines related to urban transportation problems.

13 “(c) FELLOWSHIPS.—

14 “(1) The Secretary may make grants to States,
15 local governmental authorities, and operators of pub-
16 lic transportation systems to provide fellowships to
17 train personnel employed in managerial, technical,
18 and professional positions in the mass transportation
19 field.

20 “(2) A fellowship under this subsection may be
21 for not more than one year of training in an institu-
22 tion that offers a program applicable to the public
23 transportation industry. The recipient of the grant
24 shall select an individual on the basis of dem-
25 onstrated ability and for the contribution the indi-



1 vidual reasonably can be expected to make to an ef-
2 ficient public transportation operation. A grant for
3 a fellowship may not be more than the lesser of
4 \$65,000 or 75 percent of—

5 “(A) tuition and other charges to the fel-
6 lowship recipient;

7 “(B) additional costs incurred by the train-
8 ing institution and billed to the grant recipient;
9 and

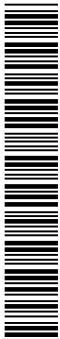
10 “(C) the regular salary of the fellowship
11 recipient for the period of the fellowship to the
12 extent the salary is actually paid or reimbursed
13 by the grant recipient.

14 “(d) OTHER GRANTS.—The Secretary may make
15 grants to State and local governmental authorities for
16 projects that will use innovative techniques and methods
17 in managing and providing public transportation.”.

18 **SEC. 205. HIGHWAY SAFETY RESEARCH AND DEVELOP-**
19 **MENT.**

20 Section 403(a) (Authority of the Secretary) of title
21 23, United States Code, is amended by adding the fol-
22 lowing paragraphs at the end:

23 “(4) EMERGENCY MEDICAL SERVICES.—In ad-
24 dition to the authority provided under this sub-
25 section, the Secretary is authorized to use funds ap-



1 propriated to carry out this section to enhance co-
2 ordination among Federal agencies involved with
3 State, local, tribal, and community-based emergency
4 medical services. In exercising this authority, the
5 Secretary may coordinate with State and local gov-
6 ernments, the Bureau of Indian Affairs on behalf of
7 Indian tribes, private industry, and other interested
8 parties; collect and exchange emergency medical
9 services data and information; examine emergency
10 medical services needs, best practices, and related
11 technology; and develop emergency medical services
12 standards and guidelines, and plans for the assess-
13 ment of emergency medical services systems.

14 “(5) INTERNATIONAL COOPERATION.—In addi-
15 tion to the authority provided under this subsection,
16 the Secretary is authorized to use funds appro-
17 priated to carry out this section to participate and
18 cooperate in international activities to enhance high-
19 way safety by such means as exchanging safety in-
20 formation; conducting safety research and develop-
21 ment; and examining safety needs, best practices,
22 and new technology.

23 “(6) NATIONAL MOTOR VEHICLE CRASH CAUSA-
24 TION SURVEY.—In addition to the authority pro-
25 vided under this subsection, the Secretary is author-



1 ized to use funds appropriated to carry out this sec-
2 tion to develop and conduct a nationally representa-
3 tive survey to collect on-scene motor vehicle crash
4 causation data.”.

5 **SEC. 206. MOTOR CARRIER RESEARCH AND DEVELOPMENT**
6 **PROGRAM.**

7 (a) IN GENERAL.—Title 49, United States Code, is
8 amended by repealing section 31108 and inserting the fol-
9 lowing new section, to read as follows:

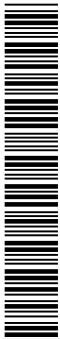
10 **“§ 31108. Motor carrier research and development**
11 **program**

12 “(a) RESEARCH, DEVELOPMENT, AND TECHNOLOGY
13 TRANSFER ACTIVITIES.—

14 “(1) The Secretary of Transportation shall es-
15 tablish and carry out a motor carrier research and
16 development program. The Secretary may carry out
17 research, development, technology, and technology
18 transfer activities with respect to—

19 “(A) the causes of accidents, injuries and
20 fatalities involving commercial motor vehicles;
21 and

22 “(B) means of reducing the number and
23 severity of accidents, injuries and fatalities in-
24 volving commercial motor vehicles.



1 “(2) The Secretary may test, develop, or assist
2 in testing and developing any material, invention,
3 patented article, or process related to the research
4 and development program.

5 “(3) The Secretary may use the funds appro-
6 priated to carry out this section for training or edu-
7 cation of commercial motor vehicle safety personnel,
8 including, but not limited to, training in accident re-
9 construction and detection of controlled substances
10 or other contraband, and stolen cargo or vehicles.

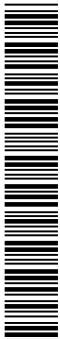
11 “(4) The Secretary may carry out this
12 section—

13 “(A) independently;

14 “(B) in cooperation with other Federal de-
15 partments, agencies, and instrumentalities and
16 Federal laboratories; or

17 “(C) by making grants to, or entering into
18 contracts or cooperative agreements with, any
19 Federal laboratory, State agency, authority, as-
20 sociation, institution, for-profit or non-profit
21 corporation, organization, foreign country, or
22 person.

23 “(5) The Secretary shall use funds made avail-
24 able to carry out this section to develop, administer,
25 communicate, and promote the use of products of re-



1 search, technology, and technology transfer pro-
2 grams under this section.

3 “(b) COLLABORATIVE RESEARCH AND DEVELOP-
4 MENT.—

5 “(1) To advance innovative solutions to prob-
6 lems involving commercial motor vehicle and motor
7 carrier safety, security, and efficiency, and to stimu-
8 late the deployment of emerging technology, the Sec-
9 retary may carry out, on a cost-shared basis, col-
10 laborative research and development with—

11 “(A) non-Federal entities, including State
12 and local governments, foreign governments,
13 colleges and universities, corporations, institu-
14 tions, partnerships, and sole proprietorships
15 that are incorporated or established under the
16 laws of any State; and

17 “(B) Federal laboratories.

18 “(2) In carrying out this subsection, the Sec-
19 retary may enter into cooperative research and de-
20 velopment agreements (as defined in section 12 of
21 the Stevenson-Wydler Technology Innovation Act of
22 1980 (15 U.S.C. 3710a)).

23 “(3)(A) The Federal share of the cost of activi-
24 ties carried out under a cooperative research and de-
25 velopment agreement entered into under this sub-



1 section shall not exceed 50 percent, except that if
2 there is substantial public interest or benefit, the
3 Secretary may approve a greater Federal share.

4 “(B) All costs directly incurred by the non-Fed-
5 eral partners, including personnel, travel, and hard-
6 ware or software development costs, shall be credited
7 toward the non-Federal share of the cost of the ac-
8 tivities described in subparagraph (A).

9 “(4) The research, development, or use of a
10 technology under a cooperative research and develop-
11 ment agreement entered into under this subsection,
12 including the terms under which the technology may
13 be licensed and the resulting royalties may be dis-
14 tributed, shall be subject to the Stevenson-Wydler
15 Technology Innovation Act of 1980 (15 U.S.C. 3701
16 et seq.).

17 “(5) Section 3705 of title 41, United States
18 Code, shall not apply to a contract or agreement en-
19 tered into under this section.”.

20 (b) CONFORMING AMENDMENT.—The table of sec-
21 tions at the beginning of chapter 311 of title 49, United
22 States Code, is amended by revising the item relating to
23 section 31108 to read as follows:

“31108. Motor carrier research and development program.”.



1 **SEC. 207. TRANSPORTATION, ENERGY, AND ENVIRONMENT.**

2 (a) IN GENERAL.—As part of the National Climate
3 Change Technology Initiative and the Climate Change Re-
4 search Initiative, the Secretary shall establish and carry
5 out a multimodal energy and climate change program to
6 study the relationship of transportation, energy, and cli-
7 mate change.

8 (b) CONTENTS.—The program to be carried out
9 under this section shall include, but not be limited to, re-
10 search and development designed to—

11 (1) identify, develop and evaluate strategies to
12 improve energy efficiency and reduce greenhouse gas
13 emissions from transportation sources; and

14 (2) identify and evaluate the potential effects of
15 climate changes on the Nation's transportation sys-
16 tems, and strategies to address these effects.

17 (c) PROJECT SELECTION.—Activities to be under-
18 taken in this program will be determined by an internal
19 steering committee established by the Secretary of Trans-
20 portation. This intermodal committee shall include rep-
21 resentatives from the Office of the Secretary and oper-
22 ating administrations within the Department of Transpor-
23 tation as designated by the Secretary.

24 (d) GRANTS, COOPERATIVE AGREEMENTS AND CON-
25 TRACTS.—The Secretary may carry out this program inde-
26 pendently or by making grants to, or entering into con-



1 tracts and cooperative agreements with, a Federal agency,
2 State agency, local agency, authority, association, non-
3 profit or for-profit corporation, or institution of higher
4 education.

5 (e) AUTHORIZATION OF APPROPRIATIONS.—There
6 are authorized to be appropriated to carry out this section,
7 from the Highway Trust Fund and the Airport and Air-
8 way Trust Fund, such sums as may be necessary for each
9 of fiscal years 2004 through 2009.

10 **SEC. 208. NATIONAL COOPERATIVE FREIGHT TRANSPOR-**
11 **TATION RESEARCH AND DEVELOPMENT PRO-**
12 **GRAM.**

13 (a) IN GENERAL.—Chapter 5 of title 23, United
14 States Code, is amended by adding at the end the fol-
15 lowing:

16 **“§ 510. National cooperative freight transportation**
17 **research and development program**

18 “(a) ESTABLISHMENT.—The Secretary shall estab-
19 lish and support a national cooperative freight transpor-
20 tation research and development program. The program
21 shall focus on all forms of freight transportation, including
22 trucking and rail.

23 “(b) AGREEMENT.—The Secretary shall enter into an
24 arrangement with the National Research Council to sup-
25 port and carry out administrative and management activi-



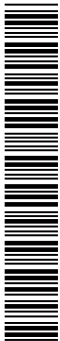
1 ties relating to the governance of the national cooperative
2 freight transportation research and development program.

3 “(c) ADVISORY COMMITTEE.—The National Re-
4 search Council shall select an advisory committee con-
5 sisting of a representative cross-section of freight stake-
6 holders, including the Department of Transportation,
7 other Federal agencies, State transportation departments,
8 local governments, the American Association of State
9 Highway and Transportation Officials and other nonprofit
10 entities (including environmental groups), academia, and
11 the private sector.

12 “(d) GOVERNANCE.—The national cooperative
13 freight transportation research and development program
14 established under this section shall include the following
15 administrative and management elements:

16 “(1) NATIONAL RESEARCH AND DEVELOPMENT
17 AGENDA.—The advisory committee, in consultation
18 with stakeholders, shall recommend a national re-
19 search and development agenda for the national co-
20 operative freight transportation research and devel-
21 opment program. The national research and develop-
22 ment agenda shall include a multi-year strategic
23 plan.

24 “(2) STAKEHOLDER INVOLVEMENT.—Stake-
25 holders may—



1 “(A) submit research and development pro-
2 posals to the advisory committee;

3 “(B) participate in merit reviews of re-
4 search and development proposals and peer re-
5 views of research and development products;
6 and

7 “(C) receive research and development re-
8 sults.

9 “(3) OPEN COMPETITION AND PEER REVIEW OF
10 RESEARCH AND DEVELOPMENT PROPOSALS.—The
11 National Research Council shall award research and
12 development contracts and grants through open
13 competition and peer review conducted on a regular
14 basis.

15 “(4) EVALUATION OF RESEARCH.—

16 “(A) PEER REVIEW.—Research and devel-
17 opment contracts and grants shall allow peer
18 review of the research and development results.

19 “(B) PROGRAMMATIC EVALUATIONS.—The
20 National Research Council may conduct peri-
21 odic programmatic evaluations on a regular
22 basis.

23 “(5) DISSEMINATION OF RESEARCH FIND-
24 INGS.—The National Research Council shall dissemi-



1 nate research and development findings to research-
2 ers, practitioners, and decisionmakers.

3 “(e) CONTENTS.—The national research and develop-
4 ment agenda for the national cooperative freight transpor-
5 tation research and development program required under
6 subsection (d)(1) may include research and development
7 in the following areas:

8 “(1) Techniques for estimating and quantifying
9 public benefits derived from freight transportation
10 projects.

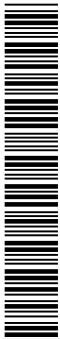
11 “(2) Alternative approaches to calculating the
12 contribution of truck traffic to congestion on specific
13 highway segments.

14 “(3) The feasibility of freight villages as a
15 means of consolidating origins and destinations for
16 freight movement.

17 “(4) Methods for incorporating estimates of
18 international trade into landside transportation plan-
19 ning.

20 “(5) The use of technology applications to in-
21 crease capacity of highway lanes dedicated to truck-
22 only traffic.

23 “(6) Development of physical and policy alter-
24 natives for separating car and truck traffic.



1 “(7) Ways to synchronize infrastructure im-
2 provements with freight transportation demand.

3 “(8) Additional priorities to identify and ad-
4 dress the emerging and future research and develop-
5 ment needs related to freight transportation.

6 “(f) FUNDING.—

7 “(1) FEDERAL SHARE.—The Federal share of
8 the cost of an activity carried out using such funds
9 shall be up to 100 percent, and such funds shall re-
10 main available until expended.

11 “(2) USE OF NON-FEDERAL FUNDS.—In addi-
12 tion to using funds authorized for this section, the
13 National Research Council may seek and accept ad-
14 ditional funding sources from public and private en-
15 tities capable of accepting funding from the United
16 States Department of Transportation (Federal
17 Highway Administration, Federal Transit Adminis-
18 tration, Federal Railroad Administration, Research
19 and Special Programs Administration, and the Na-
20 tional Highway Traffic Safety Administration),
21 states, local governments, nonprofit foundations, and
22 the private sector.”.

23 (b) CONFORMING AMENDMENT.—The analysis for
24 chapter 5 of title 23, United States Code, is amended by
25 redesignating section 509 as follows:



“510. National cooperative freight transportation research and development program.”.

1 **SEC. 209. NEXT GENERATION NATIONAL TRANSPORTATION**
2 **POLICY STUDY COMMISSION.**

3 (a) ESTABLISHMENT OF COMMISSION.—(1) The
4 President shall established a Commission to be known as
5 the Next Generation National Transportation Policy
6 Study Commission, in this section referred to as the
7 “Commission”.

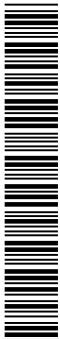
8 (2) The Commission shall make a full and complete
9 investigation and study of the transportation needs and
10 of the resources, requirements, and policies of the United
11 States to meet such expected needs. It shall take into con-
12 sideration all reports on national transportation policy
13 which have been submitted to Congress in the last decade,
14 including all reports referenced in the Intermodal Surface
15 Transportation Efficiency Act of 1991 and the Transpor-
16 tation Equity Act for the 21st Century. It shall also take
17 into consideration the changes in global trade and its im-
18 pact on the Nation’s economy. It shall evaluate the relative
19 merits of all modes of transportation in meeting our Na-
20 tion’s transportation needs. It shall take into account the
21 link between transportation and the natural environment.
22 Based on such study, it shall recommend changes to exist-
23 ing policies and any new policies that are most likely to
24 ensure that adequate multimodal transportation systems



1 are in place which will meet the needs for a safe and effi-
2 cient movement of people and goods and also support and
3 grow the national economy.

4 (b) MEMBERSHIP.—The Commission shall be com-
5 prised of 16 members appointed by the President from
6 among individuals who are knowledgeable in transpor-
7 tation activities, including individuals representing State
8 and local governments, metropolitan planning organiza-
9 tions, transportation-related industries, academic and
10 technical institutions, and public interest organizations in-
11 volved with scientific, regulatory, economic, and environ-
12 mental transportation activities. The membership of the
13 Commission shall be balanced geographically to the extent
14 consistent with maintaining the highest level of expertise
15 on the Commission. Members shall be appointed for the
16 life of the Commission as follows:

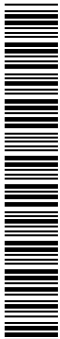
17 (1) 4 shall be appointed from a list of 8 individ-
18 uals who shall be recommended by the majority lead-
19 er of the Senate in consultation with the Chairman
20 of the Committee on Environment and Public
21 Works, and the Chairman of the Committee on
22 Commerce, Science and Transportation, and the
23 Chairman of the Committee on Banking, Housing
24 and Urban Affairs of the Senate.



1 (2) 4 shall be appointed from a list of 8 individ-
2 uals who shall be recommended by the minority lead-
3 er of the Senate in consultation with the ranking
4 member of the Committee on Environment and Pub-
5 lic Works, the ranking member of the Committee on
6 Commerce, Science and Transportation, and the
7 ranking member of the Committee on Banking,
8 Housing and Urban Affairs of the Senate.

9 (3) 4 shall be appointed from a list of 8 individ-
10 uals who shall be recommended by the Speaker of
11 the House of Representatives in consultation with
12 the Chairman of the Committee on Transportation
13 and Infrastructure, the Chairman of the Committee
14 on Energy and Commerce, and the Chairman of the
15 Committee on Science of the House of Representa-
16 tives.

17 (4) 4 shall be appointed from a list of 8 individ-
18 uals who shall be recommended by the minority lead-
19 er of the House of Representatives in consultation
20 with the ranking member of the Committee on
21 Transportation and Infrastructure, the ranking
22 member of the Committee on Energy and Com-
23 merce, and the ranking member of the Committee
24 on Science of the House of Representatives.



1 (5) Any vacancy which may occur on the Com-
2 mission shall not affect its powers or functions but
3 shall be filled in the same manner in which the origi-
4 nal appointment was made.

5 (c) FINAL REPORT.—The Commission shall not later
6 than December 31, 2005, submit to the President and
7 Congress its final report including its findings and rec-
8 ommendations. The Commission shall cease to exist six
9 months after submission of such report. All records and
10 papers of the Commission shall thereupon be delivered to
11 the Archivist of the United States for deposit in the Ar-
12 chives of the United States.

13 (d) FINDINGS AND RECOMMENDATIONS.—The final
14 report shall include the Commission's findings and rec-
15 ommendations with respect to the following:

16 (1) The Nation's transportation needs, both na-
17 tional and regional, through the year 2025.

18 (2) The ability of our current transportation
19 systems to meet the projected needs.

20 (3) The proper mix of transportation modes
21 and necessary linkages between modes to meet an-
22 ticipated needs.

23 (4) Necessary measures and policies to ensure
24 enhancement and protection of the natural environ-
25 ment in transportation decisionmaking.



1 (5) Short-term, medium-term, and long-term
2 research, development, and deployment to meet ex-
3 pected needs.

4 (6) The roles of the public and private sectors
5 relative to each mode and the balance between public
6 and private investment.

7 (7) The existing policies and programs of the
8 Federal Government which affect the development of
9 our national transportation system.

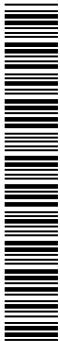
10 (8) The new policies required to develop a bal-
11 anced national transportation system which meets
12 projected needs, accommodates international trade
13 and supports the national economy.

14 (9) The adequacy of existing methods to fi-
15 nance transportation and alternative new methods of
16 financing.

17 (e) SPECIFIC FACTORS TO CONSIDER.—In developing
18 its findings and recommendations, the Commission shall
19 address the following specific factors:

20 (1) The role of transportation as a critical link
21 to the global economy and trade.

22 (2) A balance between the transportation of
23 people and goods.



1 (3) Improving operations and management of
2 the transportation system to improve efficiency, in-
3 cluding asset and information management.

4 (4) The need to address aging infrastructure.

5 (5) The need to address the enhancement and
6 protection of the natural environment.

7 (6) The need to address congestion in all
8 modes.

9 (7) The need to improve environmental deci-
10 sionmaking.

11 (8) A balance between the demand for transpor-
12 tation reliability with new threats to security.

13 (9) Ways to eliminate barriers to transportation
14 investment created by the current modal structure of
15 transportation funding.

16 (10) Existing barriers to private investment in
17 transportation facilities including tax inequities be-
18 tween modes.

19 (11) The adequacy of the Federal transpor-
20 tation trust funds to finance future transportation
21 needs.

22 (12) Appropriate measures of transportation
23 need.

24 (13) The adequacy of integration among Fed-
25 eral programs affecting transportation.



1 (14) The relationship between land use and
2 transportation infrastructure investment.

3 (15) The role that transportation plays in pro-
4 moting economic growth, improving the environment
5 and sustaining the quality of life.

6 (f) RECOMMENDATIONS ON THE ROLES OF GOVERN-
7 MENT.—The Commission shall also make recommenda-
8 tions on the roles of the Federal and State governments
9 in—

10 (1) environmental review of transportation
11 projects;

12 (2) the provision of intercity passenger rail
13 services;

14 (3) financing transportation at international
15 border crossings;

16 (4) facilitating international goods movement
17 to, from and within the United States;

18 (5) ensuring consistency in data and commu-
19 nications links for and between all modes;

20 (6) financing for each mode of transportation;
21 and

22 (7) effectively using transportation networks to
23 enhance the quality of life, protect natural resources
24 and promote sustainable economic growth.

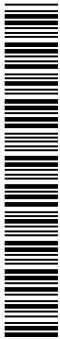
25 (g) PARTICIPATION IN COMMISSION ACTIVITIES.—



1 (1) PARTICIPATION OF FEDERAL AGENCIES.—

2 The Chairman of the Commission shall request the
3 head of each Federal department or agency with an
4 interest in or a responsibility for national transpor-
5 tation policy to appoint a liaison who shall work
6 closely with the Committee and its staff. Such de-
7 partments and agencies shall include, but not be lim-
8 ited to, the Department of Transportation, and each
9 of its modal administrations, Office of Management
10 and Budget, Department of Energy, Department of
11 Homeland Security, Environmental Protection Agen-
12 cy, Department of Health and Human Services, De-
13 partment of Commerce, Department of the Treas-
14 ury, Department of Defense, Department of Agri-
15 culture, National Transportation Safety Board, Sur-
16 face Transportation Board, and Army Corps of En-
17 gineers.

18 (2) ADVICE FROM PUBLIC AND PRIVATE ORGA-
19 NIZATIONS.—In carrying out its duties, the Commis-
20 sion shall seek the advice of various groups inter-
21 ested in national transportation policy including
22 State and local governments, public and private or-
23 ganizations in the fields of transportation and safe-
24 ty, business, education, environment and labor, and
25 the public.

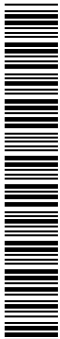


1 (h) HEARINGS.—The Commission or, on the author-
2 ization of the Commission, any Committee of two or more
3 members may, for the purpose of carrying out the provi-
4 sions of this section, hold such hearings at such times and
5 places as the Commission or such authorized committee
6 may deem advisable.

7 (i) COMPENSATION.—Members of Congress or other
8 governmental employees shall serve without compensation,
9 but shall be reimbursed for travel, per diem in accordance
10 of the rules of the House of Representatives and Senate,
11 accordingly, or subsistence and other necessary expenses
12 incurred in the performance of the duties vested in the
13 Commission.

14 (j) COMMISSION STAFF.—The Commission is author-
15 ized to appoint and fix the compensation of a staff director
16 and such additional personnel as may be necessary to en-
17 able it to carry out its functions.

18 (k) CONTRACTS.—The Commission is authorized to
19 enter into contracts or agreements for studies and surveys
20 with public and private organizations and, if necessary,
21 to transfer funds to Federal agencies from sums appro-
22 priated pursuant to this section to carry out such of its
23 duties as the Commission determines can best be carried
24 out in the that manner.



1 (l) AUTHORIZATION OF APPROPRIATIONS.—(1)

2 There are authorized to be appropriated from the High-
3 way Trust Fund to carry out this section such sums as
4 may be necessary for each of fiscal years 2004 and 2005.

5 (2) Funds authorized by this subsection shall remain
6 available until expended.

7 **SEC. 210. REAL-TIME SYSTEM MANAGEMENT INFORMATION**
8 **PROGRAM.**

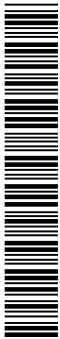
9 (a) GOALS AND PURPOSES.—

10 (1) GOALS.—The goals of the real-time system
11 management information program are to provide the
12 nationwide capability to monitor, in real-time, the
13 traffic and travel conditions of our Nation's major
14 highways and to widely share that information to
15 improve the security of the surface transportation
16 system, address congestion problems, support im-
17 proved response to weather events, and facilitate na-
18 tional and regional traveler information.

19 (2) PURPOSES.—The purposes of the real-time
20 system management information program are to—

21 (A) establish a nationwide system of basic
22 real-time information for managing and oper-
23 ating our surface transportation system;

24 (B) identify longer range real-time high-
25 way and transit monitoring needs and develop



1 plans and strategies for meeting those needs;
2 and

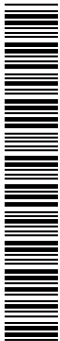
3 (C) provide the capability and means to
4 share that data with state and local govern-
5 ments, and the traveling public.

6 (b) DATA EXCHANGE FORMATS.—Within one year of
7 enactment of this Act, the Secretary shall establish data
8 exchange formats to ensure that the data provided by
9 highway and transit monitoring systems, including state-
10 wide incident reporting systems can readily be exchanged
11 across jurisdictional boundaries, facilitating nationwide
12 availability of information.

13 (c) STATEWIDE INCIDENT REPORTING SYSTEM.—
14 Within 2 years of enactment of this legislation, each State
15 shall establish a statewide incident reporting system.

16 (d) REGIONAL INTELLIGENT TRANSPORTATION SYS-
17 TEM ARCHITECTURE.—

18 (1) As State and local governments develop or
19 update their regional ITS architectures, as specified
20 in section 940.9 of title 23, Code of Federal Regula-
21 tions (Regional ITS Architecture), they shall explic-
22 itly address their real-time highway and transit in-
23 formation needs and the systems needed to meet
24 those needs. This specific incorporation of informa-
25 tion needs should address coverage, monitoring sys-



1 tems, data fusion and archiving, and methods of ex-
2 changing or sharing this information.

3 (2) States are encouraged to incorporate the
4 data exchange formats developed by the Secretary to
5 ensure that the data provided by highway and tran-
6 sit monitoring systems can readily be exchanged
7 across state and local governments, and with the
8 traveling public.

9 (e) DEFINITION.—In this section, the term “state-
10 wide incident reporting system” means a statewide system
11 for facilitating the real-time electronic reporting of inci-
12 dents to a central location for use in monitoring the event,
13 providing accurate traveler information, and responding to
14 the incident as appropriate.

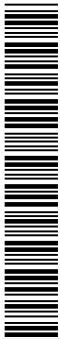
15 (f) ELIGIBILITY.—Subject to approval by the Sec-
16 retary, a State may obligate funds apportioned to it under
17 sections 104(b)(1) and (3) and 505 of title 23, United
18 States Code, for activities relating to the planning of real-
19 time monitoring elements.

20 **SEC. 211. PLANNING CAPACITY BUILDING INITIATIVE.**

21 Section 104 of title 23, United States Code, is
22 amended by inserting after subsection (l) the following:

23 “(m) PLANNING CAPACITY BUILDING INITIATIVE.—

24 “(1) IN GENERAL.—The Secretary shall estab-
25 lish a planning capacity building initiative to support



1 enhancements in transportation planning, in order
2 to—

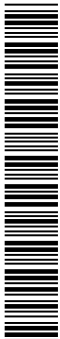
3 “(A) strengthen metropolitan and state-
4 wide transportation planning under sections
5 134 and 135, and under sections 5303 through
6 5305 of title 49;

7 “(B) enhance tribal capacity to conduct
8 joint transportation planning under chapter 2
9 of this title; and

10 “(C) participate in the metropolitan and
11 statewide transportation planning programs
12 under chapter 52 of title 49.

13 “(2) PRIORITY.—The Secretary shall give pri-
14 ority to planning practices and processes that sup-
15 port homeland security planning, performance based
16 planning, safety planning, operations planning,
17 freight planning, and integration of environment and
18 planning.

19 “(3) USE OF FUNDS.—Funds authorized for
20 this program may be used for research, program de-
21 velopment, information collection and dissemination,
22 and technical assistance. The Secretary may use
23 these funds independently or make grants to, or
24 enter into contracts and cooperative agreements
25 with, a Federal agency, State agency, local agency,



1 federally recognized Indian tribal government or
2 tribal consortium, authority, association, nonprofit
3 or for-profit corporation, or institution of higher
4 education, to carry out the purposes of this sub-
5 section.

6 “(4) FEDERAL SHARE.—The Federal share of
7 the cost of an activity carried out using such funds
8 shall be up to 100 percent, and such funds shall re-
9 main available until expended.

10 “(5) ADMINISTRATION.—This initiative shall be
11 administered by the Federal Highway Administra-
12 tion in cooperation with the Federal Transit Admin-
13 istration.

14 “(6) AUTHORIZATION OF APPROPRIATIONS.—
15 There are authorized to be appropriated from the
16 Highway Trust Fund such sums as may be nec-
17 essary to carry out this section for each of fiscal
18 years 2004 through 2009.”.

